



Snell  
Advanced  
Media

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# User Manual

## **IQTIC00**

Third-party IP Controller Module

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# Safety Information

## Explanation of Safety Symbols

**GB**

- This symbol refers the user to important information contained in the accompanying literature. Refer to manual.
- This symbol indicates that hazardous voltages are present inside. No user serviceable parts inside. This unit should only be serviced by trained personnel.

## Safety Warnings



**"CAUTION:** These servicing instructions are for use by qualified personnel only. To reduce risk of electric shock do not perform any servicing other than that contained in the operating instructions unless you are qualified to do so. Refer all servicing to qualified personnel."

- To reduce the risk of electric shock, do not expose this appliance to rain or moisture.
- Always ensure that the unit is properly earthed and power connections correctly made.
- This equipment must be supplied from a power system providing a **PROTECTIVE EARTH** (⊕) connection and having a neutral connection which can be reliably identified.
- The power outlet supplying power to the unit should be close to the unit and easily accessible

## Power connection in countries other than the USA

The equipment is normally shipped with a power cable with a standard IEC moulded free socket on one end and a standard IEC moulded plug on the other. If you are required to remove the moulded mains supply plug, dispose of the plug immediately in a safe manner.

The colour code for the lead is as follows:

- GREEN/YELLOW lead connected to E (Protective Earth Conductor)
- BLUE lead connected to N (Neutral Conductor)
- BROWN lead connected to L (Live Conductor)



- Caution if the unit has two mains supply inputs ensure that both power cords are plugged into mains outlets operating from the same phase.

## Erklärung der Sicherheitssymbole

**D**

- Dieses Symbol weist den Benutzer auf wichtige Informationen hin, die in der begleitenden Dokumentation enthalten sind.
- Dieses Symbol zeigt an, dass gefährliche Spannung vorhanden ist. Es befinden sich keine vom Benutzer zu wartenden Teile im Geräteinneren. Dieses Gerät sollte nur von geschultem Personal gewartet werden

## Sicherheits-Warnhinweise



Die angeführten Service-/Reparatur-Anweisungen sind ausschließlich von qualifiziertem Service-Personal auszuführen. Um das Risiko eines lektroschocks zu reduzieren, führen Sie ausschließlich die im Benutzerhandbuch eschriebenen Anweisungen aus, es sei denn, Sie haben die entsprechende Qualifikation. Wenden Sie sich in allen Service-Fragen an qualifiziertes Personal.

- Um das Risiko eines Elektroschocks zu reduzieren, setzen Sie das Gerät weder Regen noch Feuchtigkeit aus.
- Stellen Sie immer sicher, dass das Gerät ordnungsgemäß geerdet und verkabelt ist.
- Dieses Equipment muss an eine Netzsteckdose mit Schutzleiter angeschlossen werden und einen zuverlässig identifizierbaren Nullleiter haben.
- Die Netzsteckdose sollte nahe beim Gerät und einfach zugänglich sein.

## Netzanschluss in anderen Ländern als der USA

Das Equipment wird im Normalfall mit einem Netzkabel mit Standard IEC Anschlussbuchse und einem Standard IEC Anschlussstecker geliefert. Sollten Sie den angeschweißten Stecker auswechseln müssen, entsorgen Sie diesen bitte umgehend. Die farbliche Belegung des Netzkabels ist wie folgt:

- GRÜN GELB E = Schutzleiter (⊕)
- BLAU N = Nullleiter
- BRAUN L = P = Phase



- Achtung: Wenn das Gerät zwei Anschlussbuchsen hat, stellen Sie bitte sicher, dass beide Netzkabel mit der selben Phase in die Netzsteckdose gesteckt werden.

## Légende :

**F**

- Ce symbole indique qu'il faut prêter attention et se référer au manuel.
- Ce symbole indique qu'il peut y avoir des tensions électriques à l'intérieur de l'appareil. Ne pas intervenir sans l'agrément du service qualifié.

## Précaution d'emploi :



**"ATTENTION:** Les procédures de maintenance ne concernent que le service agréé. Afin de réduire le risque de choc électrique, il est recommandé de se limiter aux procédures d'utilisation, à moins d'en être qualifié. Pour toute maintenance, contacter le service compétent."

- Pour réduire le risque de choc électrique, ne pas exposer l'appareil dans un milieu humide.
- Toujours s'assurer que l'unité est correctement alimentée, en particuliers à la liaison à la terre.
- La source électrique de cet équipement doit posséder une connexion à la terre (⊕), ainsi qu'une liaison « neutre » identifiable.
- La prise électrique qui alimente l'appareil doit être proche de celle-ci et accessible.

## Câble secteur de pays autres que les Etats-Unis

L'équipement est livré avec un câble secteur au standard IEC, moulé mâle/femelle.

Si vous souhaitez changer la prise mâle de votre cordon, voici les codes couleurs des fils :

- Le fil VERT/JAUNE est connecté à T (Terre)
- Le fil BLEU est connecté à N (Neutre)
- Le fil MARRON est connecté à P (Phase)



- Attention si l'appareil a 2 alimentations, s'assurer que les cordons soient branchés sur la même phase.

## Explicación de los Símbolos de Seguridad

**ESP**

- Éste símbolo refiere al usuario información importante contenida en la literatura incluida. Referirse al manual.
- Éste símbolo indica que voltajes peligrosos están presentes en el interior. No hay elementos accesibles al usuario dentro. Esta unidad sólo debería ser tratada por personal cualificado.

## Advertencias de Seguridad



Las instrucciones de servicio cuando sean dadas, son sólo para uso de personal cualificado. Para reducir el riesgo de choque eléctrico no llevar a cabo ninguna operación de servicio aparte de las contenidas en las instrucciones de operación, a menos que se esté cualificado para realizarlas. Referir todo el trabajo de servicio a personal cualificado.

- Para reducir el riesgo de choque eléctrico, no exponer este equipo a la lluvia o humedad.
- Siempre asegurarse de que la unidad está propiamente conectada a tierra y que las conexiones de alimentación están hechas correctamente.
- Este equipo debe ser alimentado desde un sistema de alimentación con conexión a TIERRA (⊕) y teniendo una conexión neutra fácilmente identificable.
- La toma de alimentación para la unidad debe ser cercana y fácilmente accesible.

## Conexión de alimentación en otros países que no sean USA

El equipo es normalmente entregado con un cable de alimentación con un enchufe hembra estándar IEC en un extremo y con una clavija estándar IEC en el otro. Si se requiere eliminar la clavija para sustituirla por otra, disponer dicha clavija de una forma segura.

El código de color a emplear es como sigue:

- VERDE/ AMARILLO conectado a E (Conductor de protección a Tierra -Earth en el original-)

- AZUL conectado a N (Conductor Neutro -Neutral en el original-)
- MARRÓN conectado a L (Conductor Fase -Live en el original-)



- Advertencia Si la unidad tuviera dos tomas de alimentación, asegurarse de que ambos cables de alimentación están conectados a la misma fase.

### Simboli di sicurezza:



- Questo simbolo indica l'informazione importante contenuta nei manuali appartenenti all'apparecchiatura. Consultare il manuale.
- Questo simbolo indica che all'interno dell'apparato sono presenti tensioni pericolose. Non cercare di smontare l'unità. Per qualsiasi tipo di intervento rivolgersi al personale qualificato.

### Attenzione:



Le istruzioni relative alla manutenzione sono ad uso esclusivo del personale qualificato. E' proibito all'utente eseguire qualsiasi operazione non esplicitamente consentita nelle istruzioni. Per qualsiasi informazione rivolgersi al personale qualificato.

- Per prevenire il pericolo di scosse elettriche è necessario non esporre mai l'apparecchiatura alla pioggia o a qualsiasi tipo di umidità.
- Assicurarsi sempre, che l'unità sia propriamente messa a terra e che le connessioni elettriche siano eseguite correttamente.
- Questo dispositivo deve essere collegato ad un impianto elettrico dotato di un sistema di messa a terra efficace.
- La presa di corrente deve essere vicina all'apparecchio e facilmente accessibile.

### Connessione elettrica nei paesi diversi dagli Stati Uniti

L'apparecchiatura normalmente è spedita con cavo pressofuso con la presa e spina standard IEC. Nel caso della rimozione della spina elettrica, gettarla via immediatamente osservando tutte le precauzioni del caso. La leggenda dei cavi è la seguente:

VERDE/GIALLO cavo connesso ad "E" (terra)  
 BLU cavo connesso ad "N" (neutro)  
 MARRONE cavo connesso ad "L" (fase)



- Attenzione! Nel caso in cui l'apparecchio abbia due prese di corrente, assicurarsi che i cavi non siano collegati a fasi diverse della rete elettrica.

### Förklaring av Säkerhetssymboler



- Denna symbol hänvisar användaren till viktig information som återfinns i litteraturen som medföljer. Se manualen.
- Denna symbol indikerar att livsfarlig spänning finns på insidan. Det finns inga servicevänliga delar inne i apparaten. Denna apparat får endast repareras av utbildad personal.

### Säkerhetsvarningar



Serviceinstruktioner som anges avser endast kvalificerad och utbildad servicepersonal. För att minska risken för elektrisk stöt, utför ingen annan service än den som återfinns i medföljande driftinstruktionerna, om du ej är behörig. Överlåt all service till kvalificerad personal.

- För att reducera risken för elektrisk stöt, utsätt inte apparaten för regn eller fukt.
- Se alltid till att apparaten är ordentligt jordad samt att strömtillförseln är korrekt utförd.
- Denna apparat måste bli försörd från ett strömsystem som är försedd med jordanslutning (⊕) samt ha en neutral anslutning som lätt identifierbar.
- Vägguttaget som strömförsörjer apparaten bör finnas i närheten samt vara lättillgänglig.

### Strömkontakter i länder utanför USA

Apparaten utrustas normalt med en strömkabel med standard IEC gjuten honkontakt på ena änden samt en standard IEC gjuten hankontakt på den andra änden. Om man måste avlägsna den gjutna hankontakten, avyttra denna kontakt omedelbart på ett säkert sätt. Färgkoden för ledningen är följande:

GRÖN/GUL ledning ansluten till E (Skyddsjordad ledare)  
 BLÅ ledning ansluten till N (Neutral ledare)  
 BRUN ledning ansluten till L (Fas ledare)



- Varning! Om enheten har två huvudsakliga elförsörjningar, säkerställ att båda strömkablarna som är inkopplade i enheten arbetar från samma fas.

### Forklaring på sikkerhedssymboler



- Dette symbol gør brugeren opmærksom på vigtig information i den medfølgende manual.
- Dette symbol indikerer farlig spænding inden i apparatet. Ingen bruger servicebare dele i apparatet på brugerniveau. Dette apparat må kun serviceres af faglærte personer..

### Sikkerhedsadvarsler



Serviceinstruktioner er kun til brug for faglærte servicefolk. For at reducere risikoen for elektrisk stød må bruger kun udføre anvisninger i betjeningsmanualen. Al service skal udføres af faglærte personer.

- For at reducere risikoen for elektrisk stød må apparatet ikke udsættes for regn eller fugt.
- Sørg altid for at apparatet er korrekt tilsluttet og jordat.
- Dette apparat skal forbindes til en nettilslutning, der yder BESKYTTENDE JORD (⊕) og 0 forbindelse skal være tydeligt markeret.
- Stikkontakten, som forsyner apparatet, skal være tæt på apparatet og let tilgængelig.

### Nettilslutning i andre lande end USA

Udstyret leveres normalt med et strømkabel med et standard IEC støbt løst hunstik i den ene ende og et standard IEC støbt hanstik i den anden ende. Hvis et af de støbte stik på strømkablet er defekt, skal det straks kasseres på forsvarlig vis. Farvekoden for lederen er som følger:

GRØN/GUL leder forbundet til J (Jord)  
 BLÅ leder forbundet til 0  
 BRUN leder forbundet til F (Fase)



- Forsigtig Hvis enheden har to lysnetindgange, skal der sørges for at begge ledninger tilsluttes lysnetudgange fra den samme fase.

### Turvamerkkien selitys



- Tämä merkki tarkoittaa, että laitteen mukana toimitettu kirjallinen materiaali sisältää tärkeitä tietoja. Lue käyttöohje.
- Tämä merkki ilmoittaa, että laitteen sisällä on vaarallisen voimakas jännite. Sisäpuolella ei ole mitään osia, joita käyttäjä voisi itse huoltaa. Huollon saa suorittaa vain alan ammattilainen.

### Turvaohjeita



Huolto-ohjeet on tarkoitettu ainoastaan alan ammattilaisille. Älä suorita laitteelle muita toimenpiteitä, kuin mitä käyttöohjeissa on neuvottu, ellei ole asiantuntija. Voit saada sähköiskun. Jätä kaikki huoltotoimet ammattilaiselle.

- Sähköiskujen välttämiseksi suojaa laite sateelta ja kosteudelta.
- Varmistu, että laite on asianmukaisesti maadoitettu ja että sähkökytkennät on tehty oikein.
- Laitteelle tehoa syöttävässä järjestelmässä tulee olla SUOJAMAALIITÄNTÄ (⊕) ja nolaliitännän on oltava luotettavasti tunnistettavissa.
- Sähköpistorasian tulee olla laitteen lähellä ja helposti tavoitettavissa.

### Sähkökytkentä

Laitteen vakiovarusteena on sähköjohto, jonka toisessa päässä on muottiin valettu, IEC-standardin mukainen liitäntärasia ja toisessa päässä muottiin valettu, IEC-standardin mukainen pistoliitin. Jos pistoliitin tarvitsee poistaa, se tulee hävittää heti turvallisella tavalla. Johtimet kytketään seuraavasti:

KELTA-VIHREÄ suojamaajohdin E-napaan  
 SININEN nolajohdin N-napaan  
 RUSKEA vaihejohdin L-napaan



- Huom! Jos laitteessa on kaksi verkkojännitteen tuloliitäntää, niiden johdot on liitettävä verkkopistorasioihin, joissa on sama vaiheistus.

### Σύμβολο de Segurança



- O símbolo triangular adverte para a necessidade de consultar o manual antes de utilizar o equipamento ou efectuar qualquer ajuste.
- Este símbolo indica a presença de voltagens perigosas no interior do equipamento. As peças ou partes existentes no interior do equipamento não necessitam de intervenção, manutenção ou manuseamento por parte do utilizador. Reparações ou outras intervenções devem ser efectuadas apenas por técnicos devidamente habilitados.

### Avisos de Segurança

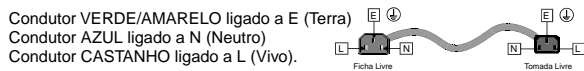


As instruções de manutenção fornecidas são para utilização de técnicos qualificados. Para reduzir o risco de choque eléctrico, não devem ser realizadas intervenções no equipamento não especificadas no manual de instalações a menos que seja efectuadas por técnicos habilitados.

- Para reduzir o risco de choque eléctrico, não expor este equipamento à chuva ou humidade.
- Assegurar que a unidade está sempre devidamente ligada à terra e que as ligações à alimentação estão correctas.
- O sistema de alimentação do equipamento deve, por razões de segurança, possuir ligação a terra de protecção (⊕) e ligação ao NEUTRO devidamente identificada.
- A tomada de energia à qual a unidade está ligada deve situar-se na sua proximidade e facilmente acessível.

#### Ligação da alimentação noutros países que não os EUA

O equipamento é, normalmente, enviado com cabo de alimentação com ficha IEC fêmea standard num extremo e uma ficha IEC macho standard no extremo oposto. Se for necessário substituir ou alterar alguma destas fichas, deverá remove-la e elimina-la imediatamente de maneira segura. O código de cor para os condutores é o seguinte:



- Atenção: Se a unidade tem duas fontes de alimentação assegurar que os dois cabos de alimentação estão ligados a tomadas pertencentes à mesma fase.

### Επεξήγηση των Συμβόλων Ασφαλείας



Αυτό το σύμβολο παραπέμπει το χρήστη σε σημαντικές πληροφορίες που συμπεριλαμβάνονται στο συνοδευτικό εγχειρίδιο.



Αυτό το σύμβολο υποδεικνύει ότι στο εσωτερικό υφίστανται επικίνδυνες ηλεκτρικές τάσεις. Στο εσωτερικό δεν υπάρχουν επικινδύνως μέρη. Αυτή η μονάδα πρέπει να επισκευάζεται μόνο από ειδικά εκπαιδευμένο προσωπικό.

### Προειδοποίηση Ασφαλείας

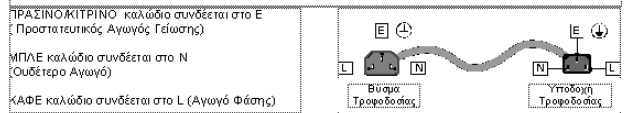


⚠ Οδηγίες επισκευής, όπου παρέχονται, αναφέρονται αποκλειστικά και μόνο σε εξειδικευμένο προσωπικό. Για να μειωθεί ο κίνδυνος ηλεκτροπληξίας, μην εκτελείτε επισκευές παρά μόνο τις συμπεριλαμβανόμενες στο εγχειρίδιο των οδηγιών, εκτός και αν έχετε τα απαραίτητα προσόντα για να το κάνετε. Όλες οι επισκευές να εκτελούνται από ειδικά εκπαιδευμένο προσωπικό.

- Για να μειώσετε τον κίνδυνο ηλεκτροπληξίας μην εκθέτετε τη συσκευή σε βροχή ή υγρασία.
- Πάντα να εξασφαλίζετε τη σωστή γείωση της συσκευής και τη σωστή σύνδεση των συνδέσμων τροφοδοσίας.
- Ο εξοπλισμός πρέπει να τροφοδοτείται από ένα σύστημα τροφοδοσίας που να εξασφαλίζει ΠΡΟΣΤΑΤΕΥΤΙΚΗ ΓΕΙΩΣΗ (⊕) και να έχει καθορισμένες θέσεις ουδέτερου και φάσης.
- Ο εξοπλισμός που τροφοδοτεί τη συσκευή θα πρέπει να βρίσκεται κοντά στη συσκευή και να είναι εύκολα προσβάσιμος.

#### Σύνδεση τροφοδοσίας σε χώρες εκτός των ΗΠΑ

Ο εξοπλισμός συνοδεύεται συνήθως από ένα καλώδιο τροφοδοσίας με ένα σταθερό βύσμα τροφοδοσίας βρέματος τύπου πυραμίδας στη μια άκρη του και μια σταθερή υποδοχή τροφοδοσίας βρέματος τύπου πυραμίδας στην άλλη άκρη του. Εάν χρειαστεί να αφαιρέσετε το σταθερό βύσμα τροφοδοσίας μην το επαναχρησιμοποιείτε, θεωρείται άχρηστο. Ο χρωματικός οδηγός για το καλώδιο τροφοδοσίας είναι ο παρακάτω:



- ⚠ ΠΡΟΣΟΧΗ Αν η μονάδα έχει δύο τροφοδοτικά βεβαιωθείτε ότι και τα δύο καλώδια τροφοδοσίας είναι συνδεδεμένα σε εξόδους τροφοδοσίας που βρίσκονται στην ίδια φάση.

### Laser Safety

This product operates with Class 1 laser products.



Caution: Use of controls or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

### Ventilation

Although the unit is constructed to meet normal environmental requirements, ensure that there is a free flow of air at the front, rear, and sides of the unit to dissipate the heat produced during operation. Installations should be designed to allow for this.



Do not obstruct the ventilation holes on the right-side of the unit. Damage to the equipment may result.

### Safety Standards

This equipment conforms to the following standards:

**EN60950-1 2006 + A11: 2009**

Safety of Information Technology Equipment Including Electrical Business Equipment.

**UL1419 (3rd Edition) - UL File E193966**

Standard for Safety – Professional Video and Audio equipment.



## EMC Standards

This equipment conforms to the following standards:

### EN 55032:2012 (Class A)

Electromagnetic Compatibility of Multimedia Equipment - Emission Requirements.

### EN 61000-3-2:2014 (Class A)

Limits for Harmonic Current Emissions.

### EN 61000-3-3:2013

Limitation of Voltage Changes, Voltage Fluctuations and Flicker in Public Low-Voltage Supply Systems.

### FCC/CFR 47:Part 15, Class A

Federal Communications Commission Rules Part 15, Subpart B, Class A.

## EMC Environment

The product(s) described in this manual conform to the EMC requirements for, and are intended for use in, the controlled EMC environment (for example, purpose-built broadcasting or recording studios), and the rural outdoor environment (far away from railways, transmitters, overhead power lines, etc.) E4.



**Warning:** This equipment is compliant with Class A of CISPR 32. In a residential environment this equipment may cause radio interference.

## EMC Performance of Cables and Connectors

SAM products are designed to meet or exceed the requirements of the appropriate European EMC standards. In order to achieve this performance in real installations it is essential to use cables and connectors with good EMC characteristics.

All signal connections (including remote control connections) shall be made with screened cables terminated in connectors having a metal shell. The cable screen shall have a large-area contact with the metal shell.

### Coaxial Cables

Coaxial cables connections (particularly serial digital video connections) shall be made with high-quality double-screened coaxial cables such as Belden 1694 or BBC type PSF1/2M.

### D-type Connectors

D-type connectors shall have metal shells making good RF contact with the cable screen. Connectors having indents which improve the contact between the plug and socket shells are recommended.

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# 1. Introduction

## 1.1 Description

The IQTIC00 provides third-party IP control systems with a Northbound control interface to SAM IP devices, using the SDC-01 protocol.

The IQTIC00 is also able to be integrated seamlessly with Sam's IPEDGE-SRV control servers, offering further control system flexibility.

## 1.2 Feature Summary

- Provides a Northbound interface allowing third-party control systems to control SAM IP Edge Devices (IQMIX, Kahuna, MV8xx, Sirius S8xx, etc.), using SAM's SDC-01 open-API protocol.
- Support for up to 36 x SAM IP Edge devices per IQTIC00 card.
- Dual IQTIC00 configuration supported in order to provide redundancy.

## 1.3 Application Notes

### 1.3.1 About Power Ratings

SAM IQ modules are assigned a *Power Rating (PR)*. This figure represents the relative power consumption of a module.

SAM modular enclosures are also assigned PR values. This figure represents the maximum power available from the enclosure.

The combined total of all modules' PR values must not exceed the enclosure's PR value.

<b>Note:</b>	If a module's PR value is not known, use the module's power consumption figure in watts as the PR value.
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### 1.3.2 Power Ratings and Card Widths

Product	Width	PR
IQTIC00	1	4.5



## 1.4 Block Diagram

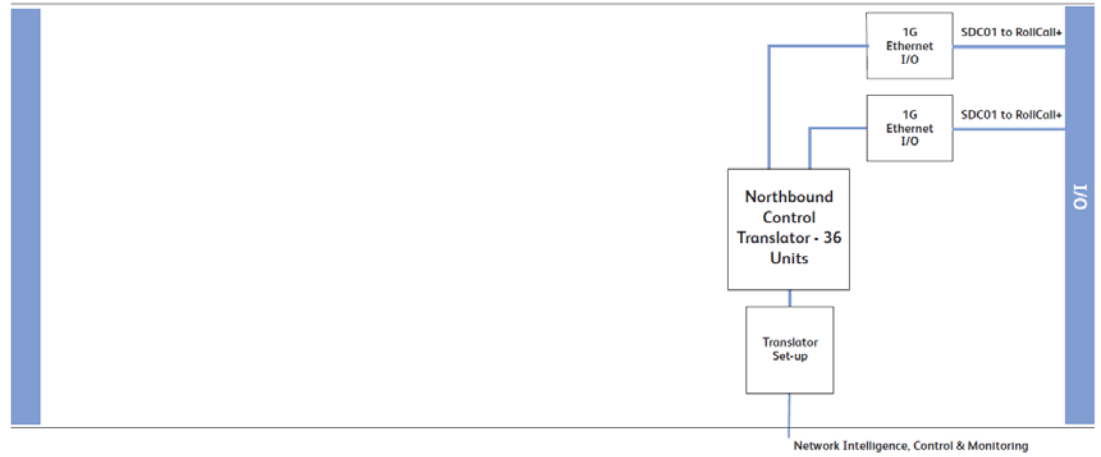


Figure 1 IQTIC00 Block Diagram

## 1.5 Order Codes

### 1.5.1 Enclosure and IP Interface Options

The following product order codes are covered by this manual:

**IQTIC0000-1B** Third-party IP Controller. 2 x 1G Ethernet I/O via RJ45 connectors.

## 1.6 Rear Panel

The following rear panel types are available:.

### 1.6.1 IQTIC0000-1B



Figure 2 IQTIC0000-1B

## 1.7 Enclosures

The IQTIC00 is suitable for fitment to the enclosures shown below.

**Important:** Although IQ modules are interchangeable between enclosures, their rear panels are enclosure-specific. An IQH3B enclosure accepts modules with either “A” or “B” order codes. An IQH3A or IQH1A enclosure accepts modules with “A” order codes only.

### 1.7.1 IQH3B-S-0, IQH3B-S-P



Figure 3 IQH3B-S-0, IQH3B-S-P

**Note:** The IQH3B enclosure provides two internal analog reference inputs. These inputs are applicable to modules with “B” order codes only.

### 1.7.2 IQH4B-S-P



Figure 4 IQH4B-S-P

## 2. Technical Specification

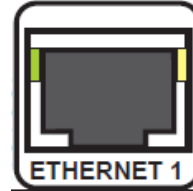
<b>Inputs/Outputs</b>	
<b>Ethernet</b>	
Connector/Format	1GbE/RJ45
Conforms to	1GbE
<b>RollCall Features</b>	
Status	Ethernet statistics
User Memories	None
Logging	Yes
RollTrack Controls	Yes
Setup	Product details, code versions, restart
<b>Specifications</b>	
Electrical	IEEE802.3
Connector/Format	RJ45
Start-up Time	30 sec
<b>Power Consumption</b>	
Module Power Consumption	4.5 PR

### 3. Connections

This section describes the physical input and output connections provided by the IQTIC00.

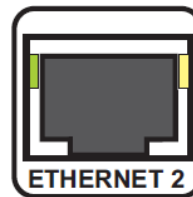
#### 3.1 1GbE Ethernet RJ45

RJ45 supporting 1GbE Ethernet.




#### 3.2 1GbE Ethernet RJ45

RJ45 supporting 1GbE Ethernet.




## 4. Card Edge LEDs

The LEDs on the edge of the module indicate its operating status.

Front Panel	Description	
	● BOARD	Not Used
	● STATUS	Green Flashing = OK

## 5. RollCall Control Panel

This section contains information on using the IQTIC00 with RollCall.

For help with general use of the RollCall application, open the user manual by clicking the  button on the main RollCall toolbar.

### 5.1 Navigating Pages in the RollCall Template

The RollCall template has a number of pages, each of which can be selected from the list at the top left of the display area. Right-clicking anywhere on the pages will also open a page view list, allowing quick access to any of the pages.

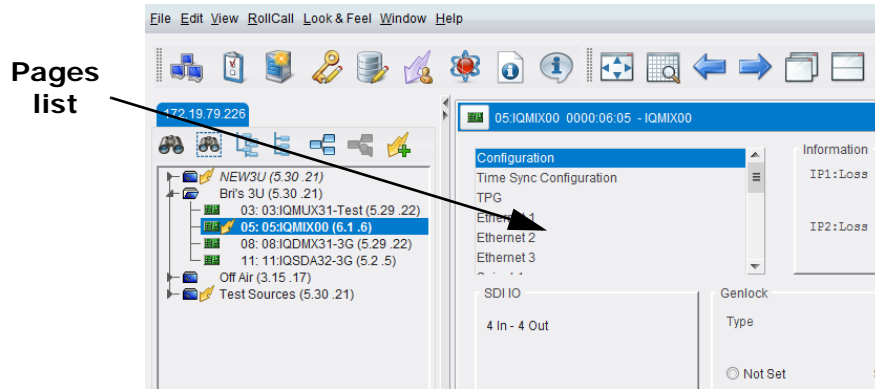


Figure 5 Template Pages


#### 5.1.1 Template Pages

The following pages are available:

- **Unit Setup** - see section 5.3.
- **RollCall+** - see section 5.4.
- **Device Selection** - see section 5.5.
- **Ethernet 1 & 2 Network Setup** - see section 5.6.
- **Logging - Product** - see section 5.7.
- **Logging - Ethernet 1 & 2** - see section 5.8
- **RollTrack** - see section 5.9.
- **Routing Protocols** - see section 5.10.

#### 5.1.2 Setting Values

Many of the settings within the templates have values, either alpha or numeric.

When setting a value in a field, the value, whether text or a number, must be set by pressing the ENTER key, or clicking the  **Save Value** button.

Clicking an associated  **Preset Value** button returns the value to the default setting.

## 5.2 Information Display

The **Information** display pane appears at the top of each page, and shows basic IP interface information.



Figure 6 Information Pane

## 5.3 Unit Setup

The **Unit Setup** page displays basic details of the module. You may be asked for these if you contact SAM technical support. Options to run particular firmware and to select the IP port for RollCall are also provided. The module can also be restarted from here.

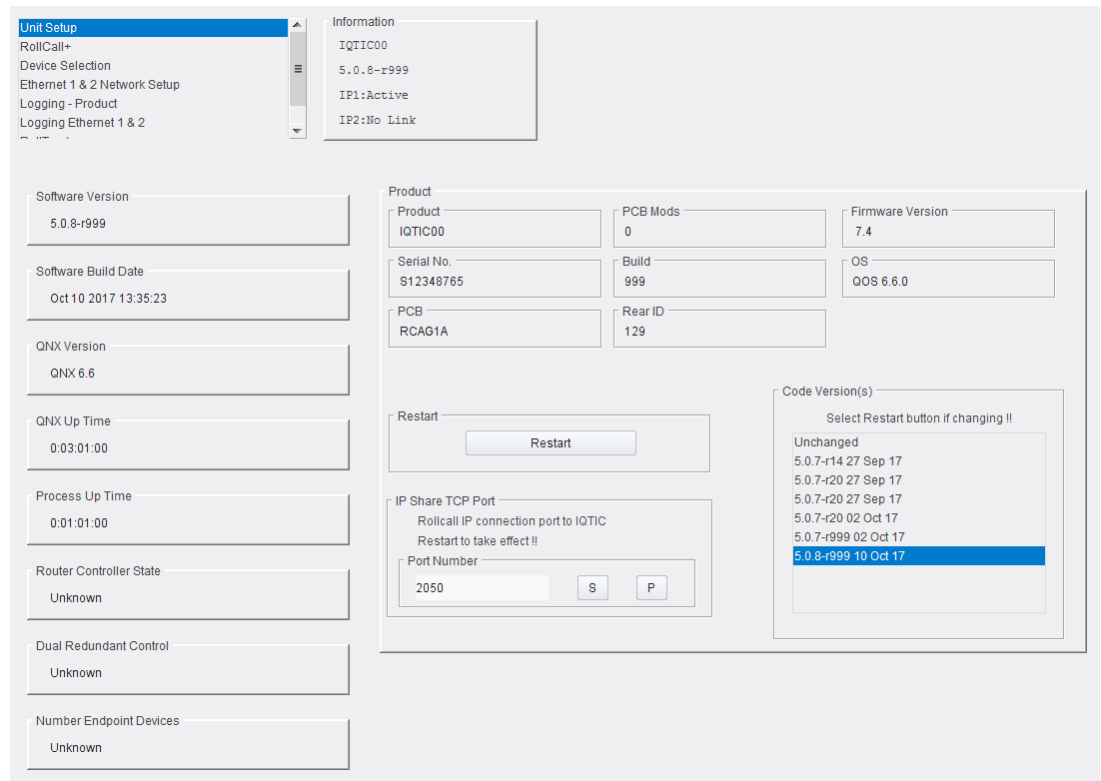


Figure 7 Unit Setup Page

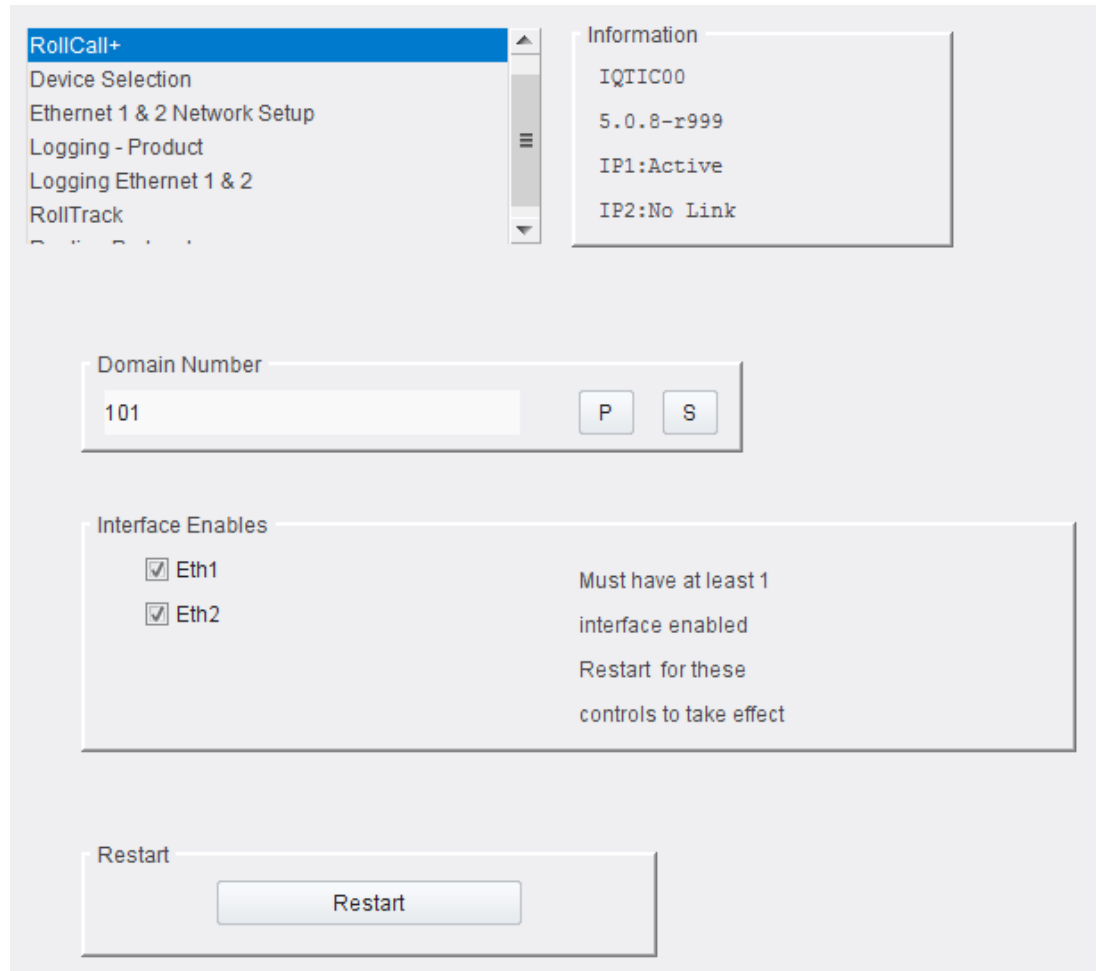
The following options are available:

Option	Operation
Restart	Click to power-cycle the module. This must be performed in order for changes made on this page to be applied.
IP Share TCP Port	Specify the TCP port to be used to connect RollCall to the module, and click <b>S</b> . Click <b>Restart</b> to apply the change.
Code Version(s)	Allows the module to run different versions of firmware code. To change, select the required version and click <b>Restart</b> .



### 5.4 RollCall+

The **RollCall+** page allows the DDS domain which the IQTIC will operate with to be specified, and allows the two Ethernet interfaces to be switched on or off.



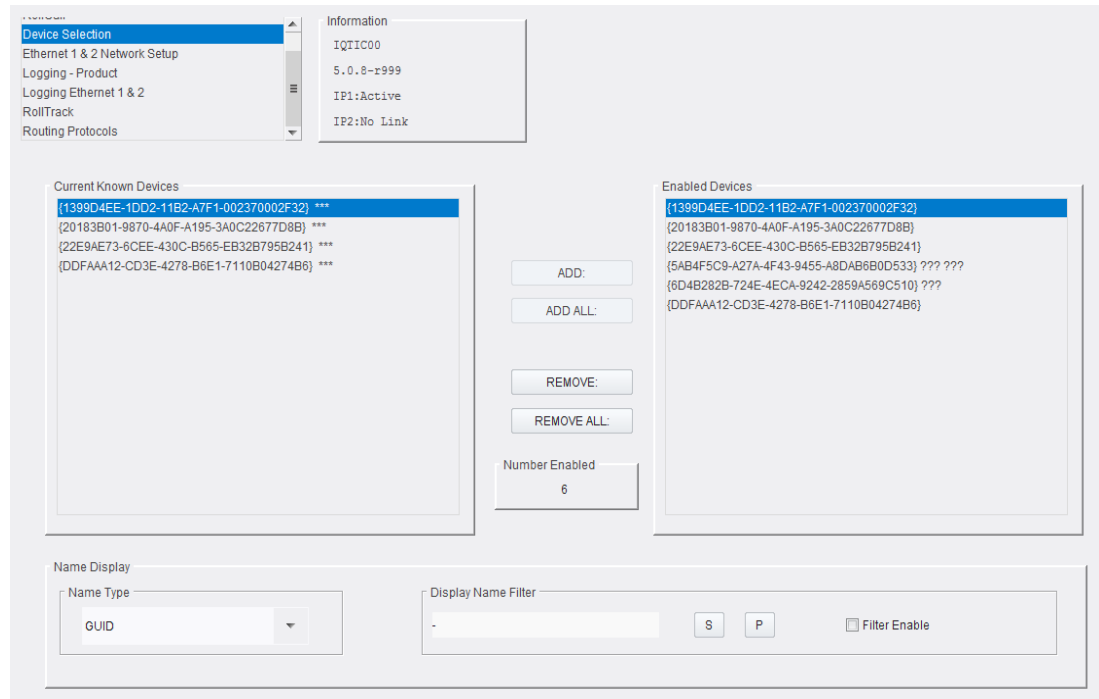
**Figure 8 RollCall+ Page**

The following options are available:

Option	Operation
Domain Number	Enter the domain number of the DDS domain to be exposed to the IQTIC.
Interface Enables	Enable Ethernet interfaces as required. Click <b>Restart</b> to apply changes.
Restart	Click to power-cycle the module. This must be performed in order for changes made on this page to be applied.

## 5.5 Device Selection

The **Device Selection** page enables devices to be made available for control by third-party systems.



**Figure 9 Device Selection Page**

The following options are available:

Option	Operation
Current Known Devices	The IQTIC automatically scans the DDS domain it is connected to and displays the devices it finds here. To make devices available for control by a third-party system, use the <b>Add/Add All</b> buttons to add them to the <b>Enabled Devices</b> list.
Enabled Devices	Devices are made available for control by a third-party system by moving them to the <b>Enabled Devices</b> list. Use the <b>Add/Add All</b> buttons to move items to the list, or the <b>Remove/Remove All</b> buttons to remove them.  Up to 36 devices may be added.
Add/Add All	Click <b>Add</b> to add the currently-selected item to the <b>Enabled Devices</b> list; click <b>Add All</b> to add all items to the <b>Enabled Devices</b> list.
Remove/Remove All	Click <b>Remove</b> to remove the currently-selected item from the <b>Enabled Devices</b> list; click <b>Remove All</b> to remove all items from the <b>Enabled Devices</b> list.
Number Enabled	Displays the number of devices currently enabled.
Name Display	Select how the devices are to be displayed. Choose from: <ul style="list-style-type: none"> <li>• <b>GUID</b></li> <li>• <b>Friendly Name</b> (for future use)</li> <li>• <b>Primary IP Address</b></li> <li>• <b>Secondary IP Address</b></li> </ul>

---

Option	Operation
Display Name Filter	The contents of the <b>Current Known Devices</b> and <b>Enabled Devices</b> lists can be filtered if required. Enter characters to filter by in the <b>Display Name Filter</b> field, and click <b>Filter Enable</b> .
Filter Enable	Click to enable the <b>Display Name Filter</b> .

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## 5.6 Ethernet 1 & 2 Network Setup

The **Ethernet 1 & 2 Network Setup** page shows detail and status for each network interface, and allows IP address details to be defined.

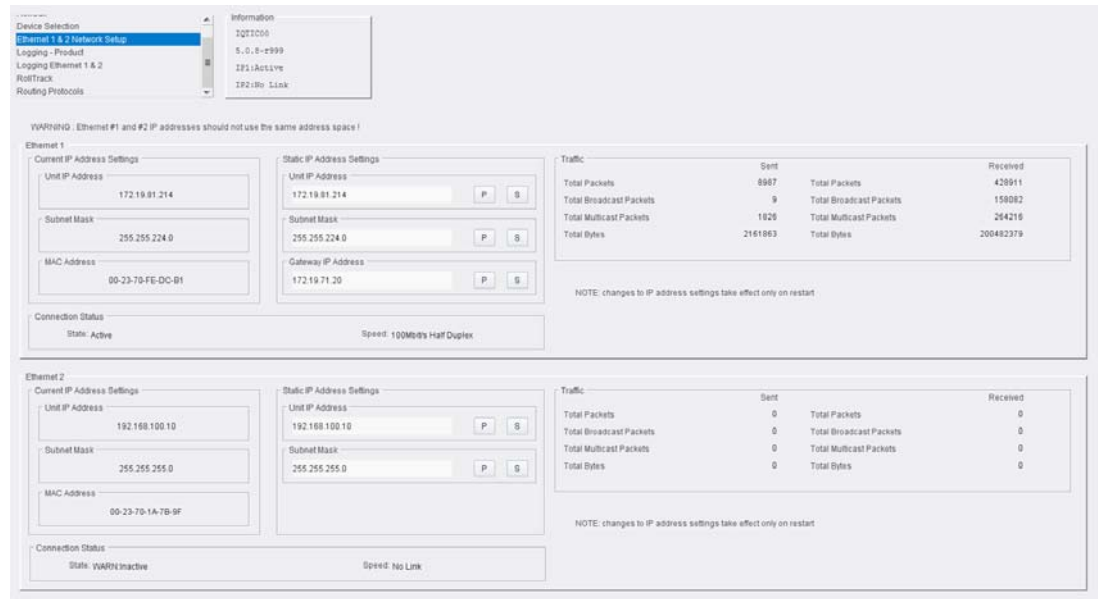


Figure 10 Ethernet 1 & 2 Network Setup Page

### 5.6.1 Setting IP Addresses

The IQTIC00 does not use DHCP, so IP details must be defined manually. Enter suitable **Unit IP Address**, **Subnet Mask** and **MAC Address** values, and click **S** to save. If necessary, saved settings may be recalled later by clicking **P**.

**Note:** IP address configuration must use IP addresses from mutually exclusive network segments. For example, if using netmask 255.255.255.0, the first IP address might be 192.168.1.10, and the second 192.168.2.10; however, if the second IP address was set to 192.168.1.25, the configuration would be invalid as the two numbers occupy the same address space (192.168.1.0/24).

Consult your network administrator for more information.

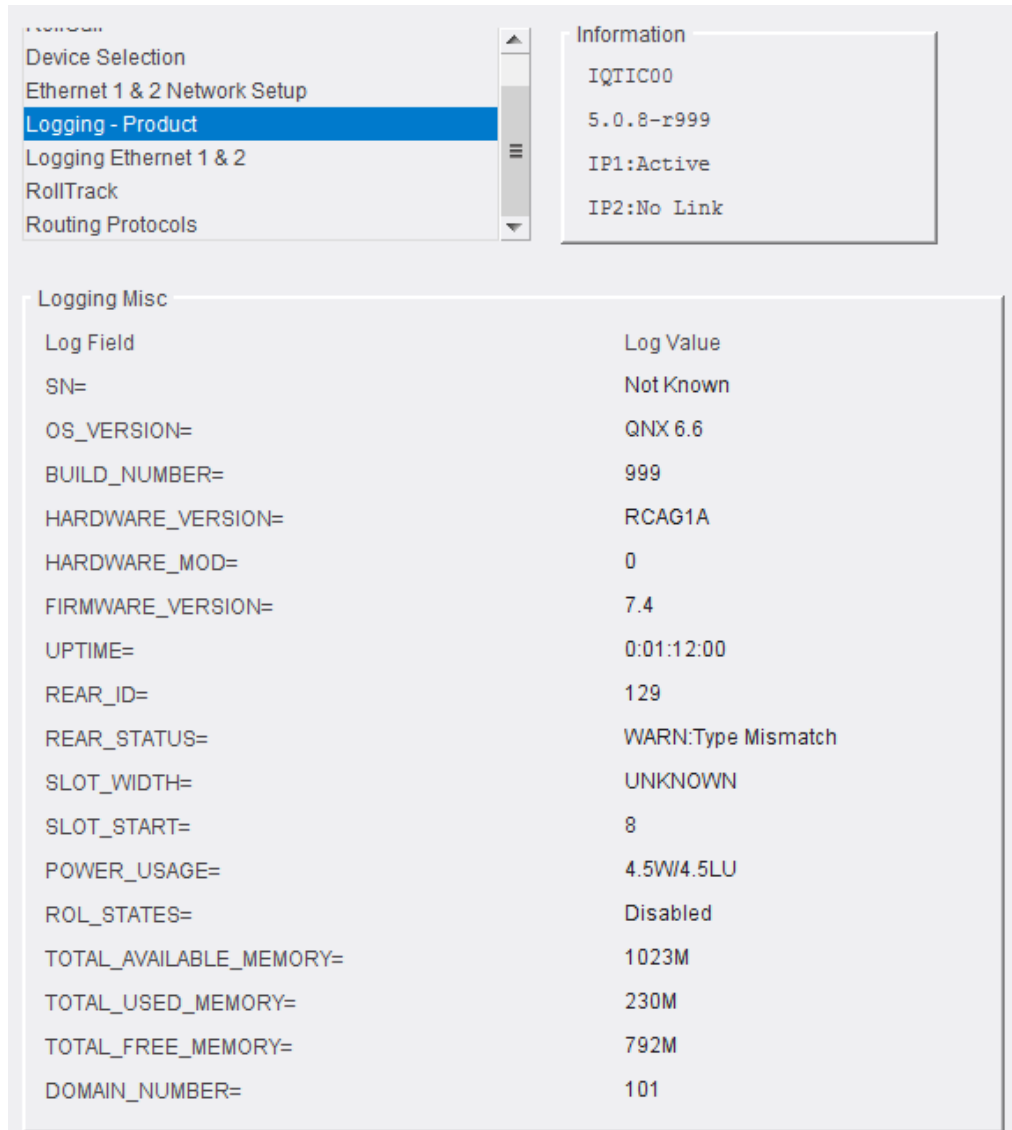
When complete, restart the module by clicking **Restart** on the **Unit Setup** page (see section 5.3).

### 5.6.2 Traffic Statistics

Information on traffic sent or received via each interface is displayed in the **Traffic** section to the right of the page.

### 5.7 Logging - Product

The **Logging - Product** page displays current unit and status information. This can be recorded by a suitable logging device attached to the RollCall network.



**Figure 11 Logging - Product Page**

The following items are logged:

Log Field	Description
SN=	Displays the module serial number, which consists of an S followed by eight digits.
OS_VERSION=	Displays the module operating system name and version.
BUILD_NUMBER=	Displays the module build number.
HARDWARE_VERSION=	Displays the hardware version number.
HARDWARE_MOD=	Displays the hardware modification number.
FIRMWARE_VERSION=	Displays the firmware version number.
UPTIME=	Displays the time since the last restart in the format ddd:hh:mm:ss.
REAR_ID=	Displays the code number of the rear fitted.

Log Field	Description
REAR_STATUS=	Displays the status of the rear (where it can be determined). Valid values are: <ul style="list-style-type: none"> <li>• <b>OK</b></li> <li>• <b>WARN:Type Mismatch</b></li> </ul>
SLOT_WIDTH=	Displays the slot width.
SLOT_START=	Displays the slot in the rack where the IQTIC00 is located.
POWER_USAGE=	Displays the power usage in: <ul style="list-style-type: none"> <li>• Watts (A-type rack), or</li> <li>• Load Units (B-type rack).</li> </ul> <p><b>Note:</b> This is a maximum power rating, not a live power reading.</p>
ROL_STATES=	Displays the RollCall status. Valid values are: <ul style="list-style-type: none"> <li>• <b>OK</b></li> <li>• <b>FAIL:n</b> - where <i>n</i> is the RollTrack index (or indices) which are failing.</li> <li>• <b>Disabled</b></li> </ul>
TOTAL_AVAILABLE_MEMORY=	Total amount of CPU memory available to the module.
TOTAL_USED_MEMORY=	Amount of CPU memory used by the module.
TOTAL_FREE_MEMORY=	Amount of free CPU memory available to the module.
DOMAIN_NUMBER=	DDS domain number.

### 5.8 Logging - Ethernet 1 & 2

The **Logging - Ethernet 1 & 2** page shows the Ethernet parameters being logged. These can be recorded by a suitable logging device attached to the RollCall network.

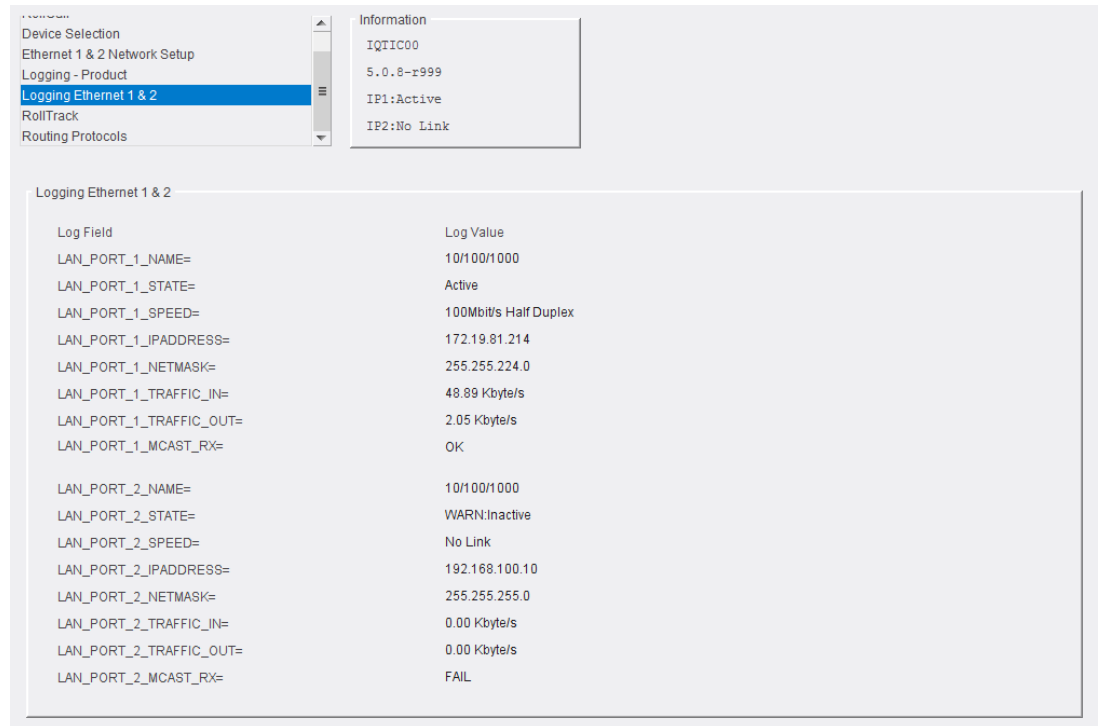


Figure 12 Logging - Ethernet 1 & 2 Page

The following items are logged:

Log Field	Description
LAN_PORT_N_NAME=	Ethernet port name as defined by the OS.
LAN_PORT_N_STATE=	Ethernet connection state. Valid values are: <ul style="list-style-type: none"> <li>Active</li> <li>WARN:Inactive</li> </ul>
LAN_PORT_N_SPEED=	Ethernet connection speed. Valid values are: <ul style="list-style-type: none"> <li>10Mbit/s Full Duplex</li> <li>10Mbit/s Half Duplex</li> <li>100 Mbit/s Full Duplex</li> <li>100 Mbit/s Half Duplex</li> <li>1Gbit/s Half Duplex</li> <li>No Link</li> </ul>
LAN_PORT_N_IPADDRESS=	Ethernet port IP address.
LAN_PORT_N_NETMASK=	Ethernet port netmask.
LAN_PORT_N_TRAFFIC_IN=	Speed of traffic being received by the port in Kbps, Mbps or Gbps, as appropriate.
LAN_PORT_N_TRAFFIC_OUT=	Speed of traffic being sent by the port in Kbps, Mbps or Gbps, as appropriate.



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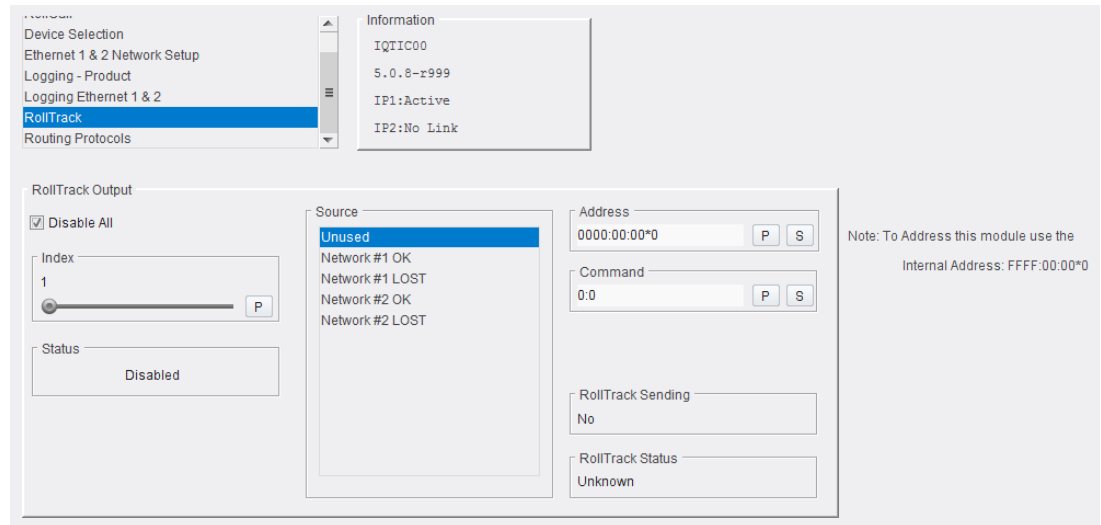
Log Field	Description
LAN_PORT_N_MCAST_RX=	Logs whether multicast data is being received. Valid values are: <ul style="list-style-type: none"><li>• <b>OK</b></li><li>• <b>FAIL</b></li></ul>

---

*Where N is the port number*

## 5.9 RollTrack

The **RollTrack** page enables information to be sent, via the RollCall network, to other compatible units on the same network.



**Figure 13 RollTrack Page**

The following options are available:

Option	Operation
Disable All	Check to disable all RollTrack items.
Index	Allows up to 16 distinct RollTrack outputs to be set up. Dragging the slider selects the RollTrack Index number, displayed in the <b>Status</b> field below the slider. Click <b>P</b> to select the default preset value.  When no source is selected, <b>Unused</b> is displayed in the <b>Source</b> pane.
Status	Displays the RollTrack index number set by the slider.
Source	The source of information that triggers transmission of data is selected with this control. When no source is selected, <b>Unused</b> is displayed.
Address	Allows the RollTrack address of the selected destination unit to be specified.  The address may be changed by typing the new destination in the text area and then clicking <b>S</b> to save. Click <b>P</b> to return to the default preset destination.  A RollTrack address consists of four sets of numbers, such as <b>0000:10:01*99</b> . <ul style="list-style-type: none"> <li>• The first set, <b>0000</b>, is the network segment code number.</li> <li>• The second set, <b>10</b>, is the number identifying the enclosure/mainframe.</li> <li>• The third set, <b>01</b>, is the slot number in the enclosure/mainframe.</li> </ul>

Option	Operation
	<ul style="list-style-type: none"> <li>The fourth set, <b>99</b>, is a user-definable number that is a unique ID for the destination unit in a multi-unit system. This ensures that only the correct unit will respond to the command. If left at <b>00</b>, an incorrectly fitted unit may respond inappropriately.</li> </ul>
Command	<p>This enables a command to be sent to the selected destination unit.</p> <p>The command may be changed by typing a code in the text area and then clicking <b>S</b> to save. Clicking <b>P</b> selects the default preset command.</p> <p>The RollTrack command consists of two sets of numbers, for example: <b>84:156</b>.</p> <p>The first number, <b>84</b>, is the actual RollTrack command.</p> <p>The second number, <b>156</b>, is the value sent with the command.</p>
RollTrack Sending	<p>A message is displayed here when the unit is actively sending a RollTrack command. Possible messages are:</p> <ul style="list-style-type: none"> <li><b>No</b> - No message is being sent.</li> <li><b>Yes</b> - A message is being sent.</li> </ul>
RollTrack Status	<p>Displays the status of the currently selected RollTrack index. Possible status messages are:</p> <ul style="list-style-type: none"> <li><b>OK</b> - RollTrack message sent and received OK.</li> <li><b>Unknown</b> - RollTrack message has been sent but has not yet completed.</li> <li><b>Timeout</b> - RollTrack message sent but acknowledgement not received. This may be because the destination unit is not at the location specified.</li> <li><b>Bad</b> - RollTrack message has not been correctly acknowledged at the destination unit. This may be because the destination unit is not of the type specified.</li> <li><b>Disabled</b> - RollTrack sending is disabled.</li> </ul>

## 5.10 Routing Protocols

The **Routing Protocols** page allows either the SDC or SWP02 routing protocols to be selected for use with the module.

The screenshot shows the 'Routing Protocols' configuration page. On the left, a navigation menu lists: Device Selection, Ethernet 1 & 2 Network Setup, Logging - Product, Logging Ethernet 1 & 2, RollTrack, and Routing Protocols (highlighted). On the right, an 'Information' box displays: IQTIC00, 5.0.8-r999, IP1:Active, and IP2:No Link. Below the menu is a note: 'NOTE: Changes in this page take effect only on restart'. The main configuration area includes an 'SDC Port Number' field with the value '2022' and 'S' and 'P' buttons. Below that is a 'Routing protocol' section with two radio buttons: 'SWP02' (unselected) and 'SDC' (selected).

**Figure 14 Routing Protocols Page**

To set the protocol to use, select the appropriate **Routing Protocol** radio button; if SDC is to be used, also enter an **SDC Port Number**. Click **S** to save the port number, or **P** to return to the preset default value.