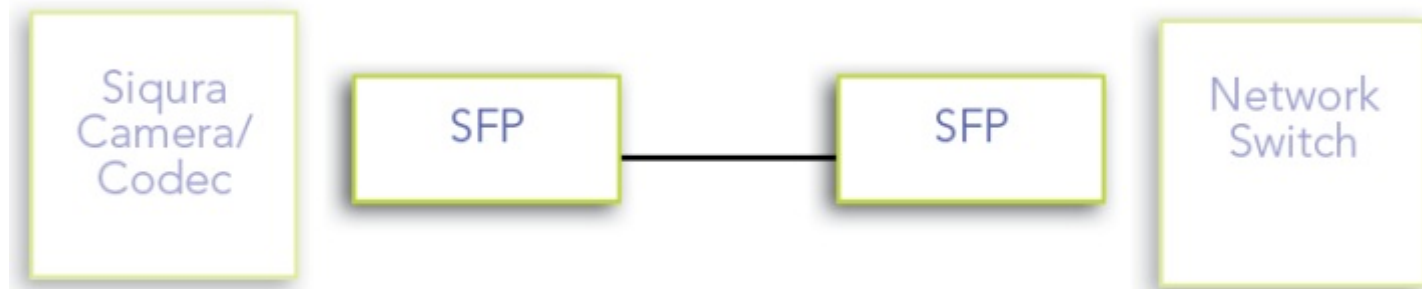## Features

- Support legacy analog video cabling up to 720m (coax type dependent)
- Hot swappable
- Small Form Factor Pluggable (SFP) Multisource Agreement (MSA) Compliant
- Compliant to IEEE 802.3 Ethernet standard
- 100Mb SFP slot support
- Fully transparent 100BaseT Ethernet
- Support direct connection to IP Cameras
- Extend networks over existing coax

ECO-plug
Ethernet over Coax SFP Module

Description

The Siqura® ECO-plug module is the smallest form factor Ethernet over coax device on the market for converting legacy analog CCTV systems to state of the art network surveillance. It enables Siqura IP cameras to connect directly to coaxial cables. These hot pluggable modules take power directly from the camera or switch so no additional cabling and power supplies are required, reducing installation time and increasing system reliability. When converting the head-end system with the XSNET series multi-port SFP network switches, the Siqura ECO-plug solution requires the least rack space and consumes the least power, reducing the total cost of ownership.

Electrical

Electrical	
Interfaces	Small Form-Factor Pluggable (SFP) Multi-Source Agreement (MSA)-compliant
Power Consumption	0.7W typical
Connector Type	1.0/2.3 DIN female 75Ω
Cable impedance	75Ω
Data throughput	100 Mbps Full duplex (200 Mbps total up + down)

Cable Compatibility

Type	Gauge / Core Type	Max. Distance
RG59	23 / Copper or Copper clad steel	150-200m / 500-650ft
RG59	20 / Copper	270-300m / 900-1000ft
RG6	18 / Copper	400-500m / 1300-1600ft
RG11	14 / Copper	500-600m / 1600-2000ft
RG11	low loss 14 / Copper	600-720m / 2000-2300ft

Note: The lower end of the Max. Distance range applies to environments with higher EMC noise levels, such as a railway electromagnetic environment.
For information about the use of the ferrite, EMC requirements, and railway application, download Siqura's "Ethernet over Coax" application note at www.siqura.com.

LED Indicators

LED Indicators	
Green - Solid	Ethernet Link On
Green - Blink	Power OK, no link
Green - Off	No power

Mechanical

Mechanical	
Housing	SFP
Cable Accessory*	1.0/2.3 DIN Male to BNC Female (40cm or 2m)

*Contact Siqura for other cable requirements.

Environment

Operating Temperature	-25° C to +60° C (-13° F to +140° F)
Relative Humidity	5% to 95% with no condensation

Compatibility

Cameras and codecs	Siqura codecs with SFP ports and BC620WDR-SFP and HSD62x series cameras.*
Media Converters	Siqura XSNet™ 3000 Series
XSNet 3300MC SFP	10/100/1000BASE-TX + 1-port 100/1000 FX SFP media converter
Network Switches	Siqura XSNet™ S4000 Series; C4000 series:
XSNet C4104SW	4-port 10/100BASE-TX + 2-port 100BASE-FX SFP Ethernet Switch, hardened
XSNet S4104SW	4-port 10/100BASE-TX + 2-port 100BASE-FX SFP Ethernet Switch, non-hardened
XSNet S4124SW SFP	24-port 100BASE-SFP + 4-port Combo (Gigabit SFP with 10/100/1000BASE-TX) Managed Ethernet Switch, non-hardened

* Consult Siqura for specific codec and server models.
Note: Gigabit SFP ports are not supported. Consult Siqura regarding other switches/models.

Ordering Information

Models	Description
ECO-plug	Ethernet over Coax, SFP Module, 100Mb with accessory cable, 40cm
ECO-plug BNC patch panel	Patch Panel, 19" Rack Plate, 24 channels, 1RU, for BNC bulkhead grounding
ECO-plug Adapter Cable BNC Bulkhead 40cm*	Adapter Cable, 40cm, for ECO-plug, DIN 1.0/2.3 male to BNC bulkhead female
ECO-plug Adapter Cable BNC Bulkhead 2m*	Adapter Cable, 2m, for ECO-plug, DIN 1.0/2.3 male to BNC bulkhead female
Ferrite 1325-0530 (cable clamp type)	Ferrite for ECO-Plug, for 5mm cable
ECO-plug BNC Ground Strap 5cm	BNC grounding wire assembly for BNC bulkhead, 5cm

*Contact Siqura for other cable requirements.