CIP-404 CIP-408

### POTS MODEM CONVERTER

**CONCENTRATOR** 



Version 1.60

#### **POTS MIGRATION**

Modem V21 to V34 FXS interface

#### **CYBERSECURITY**

AES encryption IPSEC tunnel

#### **RUGGEDIZED**

Extended temperature Electromagnetic

## LOW POWER

10 W

## **Description**

**CIP-404** is a perfect solution to evolve communications from the plain old telephone system POTS and modems to new generation IP networks. **CIP-404** is a 4 POTS modem to IP converter that emulates voice band communications for remote stations and enables easy migration to IP for the telecoms network and the management and data center.

**CIP-404** embeds 4 FXS telephone interface that emulates the public switched telephone network for both outgoing and incoming calls. It support both DTMF and pulse dialling. It embeds 4 modems data processor that is compliant with ITU-T V21 to V34 standards. So **CIP-401** emulates the end-to-end communication through the telephone network till the remote CIP-401 modem and this is totally transparent to existing applications and remote equipment.

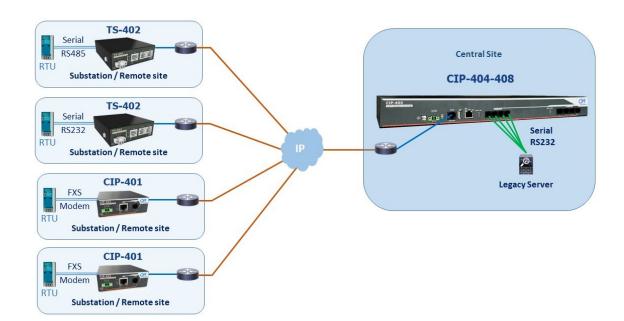
**CIP-404** provide data encapsulation into IP packets in compatibility with many industrial communication protocols designed for asynchronous RS232 or modem links. It provides options to secure communications with AES256 and IPSEC tunnels.

**CIP-404** is a ruggedized equipment that can be easily integrated in any industry environment. Its very small form factor enables integration in any existing system. It provides mounting brackets and DIN rail clip. Its management protocols can be disable so it becomes a totally secured black box.

CIP-408 is made by 2 CIP-404 who distribute up to 8 analogue modems across 1 Ethernet.

### **Applications**

**CIP-404** associated to **CIP-401** is aimed at providing easy migration of industry applications that were designed for communications over the Public Switched Telephone Network (PSTN or POTS). This is often the case of alarm systems, remote metring, utility substations, payment terminal, automatic distribution machines (food, gas, etc.), ATM and other bank terminals, medical care and pharmaceutical terminals, etc.





# **Specifications**

Modem PSTN interface				
Modem	<ul> <li>4 or 8 modems</li> <li>V21, V22, V22Bis, V23, V32, V34</li> <li>V42, V42Bis</li> <li>asynchronous</li> </ul>			
FXS interface (PSTN)	<ul> <li>CTR-21; 600 Ohms, 48 Vdc / 10 mA, 300-3400 Hz</li> <li>DTMF and pulse dialling</li> <li>Ring signal: 25 Hz, &gt; 24 Vrms</li> <li>Transmission power: -10 to -16 dBm</li> <li>Input power: -10 to -36 dBm</li> </ul>			
Encapsulation over IP				
Encapsulation	<ul> <li>UDP or TCP</li> <li>transparent: raw-ip</li> <li>Bloc - Message, compatible with DNP3</li> <li>HNZ S2, break</li> </ul>			
Operability	TLV layer, user defined			
Encryption	• AES128, AES256			
Ethernet Interface				
Ethernet	• 1x 10/100BaseT port			
Protocols				
Ethernet	• VLAN, 802.1q • QoS, 802.1p			
IP	<ul><li>IP v4, IP v6, dual stack</li><li>DHCP client</li></ul>			
Security	Firewall     ACL, MAC and IP filter			

Administration				
Mode	administration : enable, disable			
Protocols	<ul> <li>http, https, ssh, snmp v3, syslog</li> </ul>			
Light indicators	<ul><li>Power and system status</li><li>FXS - Modem status</li><li>Ethernet status</li><li>IP status</li></ul>			
	General characteristics			
Format	<ul><li>Compact metallic enclosure</li><li>Rack mount or DIN rail mounting clip</li></ul>			
Interfaces	<ul><li>1x Ethernet RJ45, 10/100BT</li><li>4 or 8 x FXS Modem RJ11</li></ul>			
Dimensions Weight	• 91 x 200 x 44 mm • 0.6 kg			
Operating temperature	• -20 to +70 °C			
Hygrometry	• 10 to 95% HR			
Power supply	• 9~18 Vdc			
MTBF	• 420 000 Hours			
Environment	<ul><li>EN-61000-6-2, EN-61000-6-4</li><li>EN-63268-1</li></ul>			

# **Ordering information**

Reference	Ethernet	Modem PSTN
CIP-404	1x RJ45	4
CIP-408	1x RJ45	8
CIP-401	1x RJ45	1



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