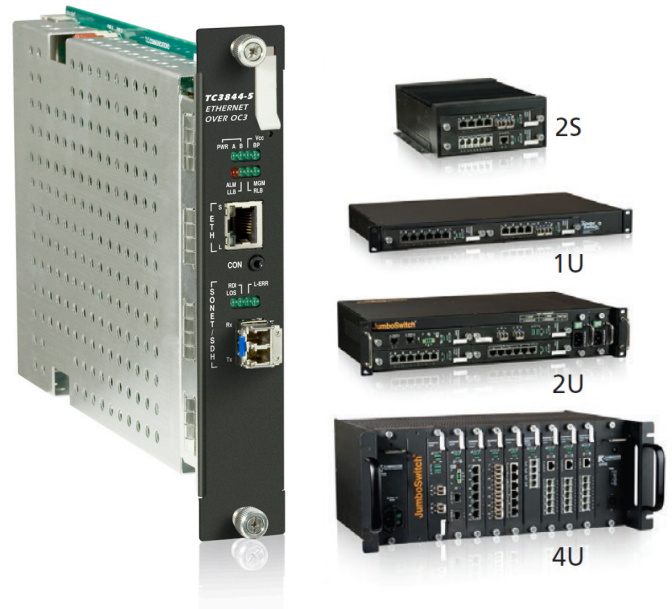


# Ethernet-over-OC-3/STM-1 Gateway

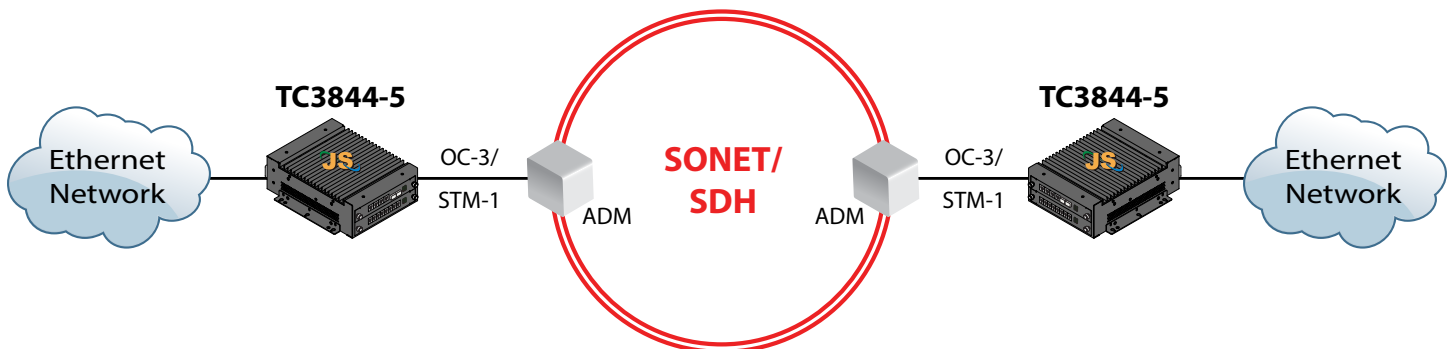
## TC3844-5

- OC-3/STM-1 Optical
- Standard GFP Encapsulation per ITU-T G.7041
- IEEE 802.1p QoS with four queues
- Ethernet and OC-3 Statistics Monitoring
- VLAN Tagging and Priority Labeling
- Manage Via Web, SNMP, Serial Console, Telnet
- Temperature & Power Consumption Monitoring



TC3844-5 Ethernet-over-OC-3/STM-1 Gateway

The TC3844-5 Ethernet-over-OC-3/STM-1 Gateway simplifies and lowers the cost of Gigabit Ethernet over SONET/SDH connectivity by extending Ethernet backhaul applications to remote locations. Using existing SONET/SDH infrastructure, the TC3844-5 converts Ethernet data into STS-3/STM-1 framing for transmission over OC-3 links.



The TC3844-5 performs store-and-forward of frames with Ethernet traffic conditioning and bridging functions at wire speed. The internal bridge supports VLAN tagging and priority labeling which enables the user to define different QoS levels according to the application requirements.

A variety of important features are included such as fault management, auto-negotiation with flow control, Statistics Monitoring, Network Time Protocol, Remote Firmware Upgrade and Temperature and Power Monitoring.

In-band management are accessed via Web, SNMP, Console and Telnet. Diagnostic tools include LEDs, dry contact alarms and local and remote loop-back

The TC3844-5 interface card can fit into any available JumboSwitch® housing option, including 2S Standalone chassis and 1U/2U/4U card cages. Power Redundancy is standard; power supply options for the standalone version are 90-260VAC, 12VDC, 24VDC and -48VDC. Standard operating temperature is -20°C to +70°C; the extreme temperature version is -40°C to +80°C.

## Applications

- Bridging Ethernet LANs between Existing SONET/SDH Networks
- Establishing Demarcation Points between Carrier and Customer Networks
- Providing Low Cost IP migration path to SONET/SDH
- Enabling Bonded Transparent LAN Service

## Specification Highlights

- Extreme Temp (-40°C to +80°C) Optional
- Meets or Exceeds IEC 61850-3, IEEE 1613 & NEMA TS-2 Standards
- Member of the JumboSwitch® Product Family

### Electrical

SONET  
Fiber (OC-3) ..... SFP LC  
Data Rate ..... 155.52Mbps  
Framing.. Telecordia GR-253-CORE  
SONET  
SDH  
Fiber (OC-3) ..... SFP LC  
Data Rate ..... 155.52Mbps  
Framing ..... ITU-T G.708, G.709  
Ethernet Interface  
Connector ..... Electrical RJ-45  
Type ..... 10/100/1000 Base-T  
Compliance ..... IEEE 802.3

### System

Bit Error Rate ..... 1 in 10<sup>9</sup> or Better

### Regulatory Approval

CE, FCC Part 15, CISPR (EN55022)  
CLASS A, IEC 61850-3, IEEE 1613,  
NEMA TS-2

### LEDs

ALM, RLB, MGM, S (Speed),  
L (Link), PWR A, PWR B, BP, LOS,  
RDI, L-ERR

### Power

Standard ..... 12VDC  
Optional ..... 24, -48 VDC  
..... 90-260 VAC, 50/60Hz  
Power Consumption ..... <10W

### Operating Temperature

High Temp ..... -20°C to 70°C Extreme  
Temp ..... -40°C to 80°C

### Storage

Temperature ..... -40°C to 90°C  
Humidity ..... 95% non-condensing

### Physical (rack mount card)

Height ..... (3.15 cm) 1.24"  
Width ..... (17.78 cm) 7.0"  
Depth ..... (22.86 cm) 9.0"  
Weight ..... (0.3 kg) 0.75 lbs



SAI GLOBAL  
ISO 9001  
Quality

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Note: Information contained in this data sheet is subject to change without prior notice.