

IX 4200-9

Features

- 9 hot plug-in capable slots
- Available plug-in types :
 - T1, E1 interface cards
 - FOM E1 SM 15 to 120km
 - V.35, EIA530, RS232, X.21 interface cards
 - QFXS, QFXO, PLAR, E&M interface cards
 - MDSL, G.shdsl interface cards
 - T1/ E1 ATM Frame Relay interface cards
 - Router interface card with Subnet management (SNMC)
 - G.703 (co-directional) interface card
 - OCU DP interface card
- Terminal Server interface card
- Usable as a CSU/DSU, E1 to T1 converter, multiple CSUs, or a DACS.
- Full TSI capability among all slots in main unit.
- Remote diagnostic capabilities.
- 2-line by 40-character LCD display for maintenance, performance monitoring, and administration.
- Management through Console port, Ethernet port, and SNMP agents.
- Inband Subnet Management facility for remote management through national networks.
- LED indicators for power, test, alarm, and each of 9 ports.
- Field changeable AC power supply, or dual feed dual DC power supply.
- Software field upgradeable through download.
- Optional GUI NMS with CXRView.
- Multicasting, Broadcasting and Backup

E1/T1 Access Multiplexer, DACS, E1/T1 Converter, Voice Channel Bank

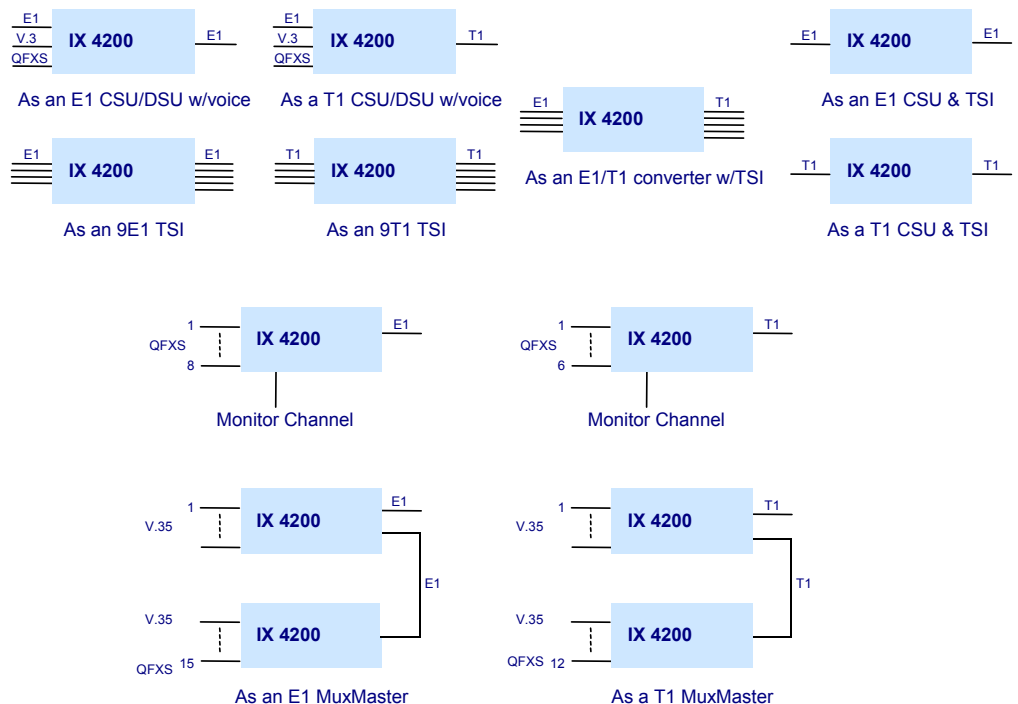
The IX 4200-9 is a versatile 9-port device. Depending on the plug-in cards selected, this unit can be configured (a) as a CSU/DSU with drop and insert and voice capabilities, (b) as a 4 E1 to 5 T1 converter or fractions of them, (c) as a digital cross-connect system (DACS), (d) as sets of ICSU combined in one box, and (e) as a channel bank. As a CSU/DSU, data from the V.35 or X.21 port can occupy any fraction of an E1 or T1 port. As an E1 to T1 converter, A to m law and coding and signaling conversions are correctly handled. For both E1 and T1 ports, continuous error checking, performance polling, and in-service diagnostics are provided. In any of the above combinations, full time slot interchange (TSI) among the ports are possible, making the IX 4200-9 a small DACS (digital access cross-connect system). The ports can further be used in pairs as ICSUs (intelligent CSU) at lower cost and smaller space than individual ICSUs. Lastly, the IX 4200 can be configured as a channel bank using E1 network or E1



fiber optic link with the integrated IX4200-E1-FO-xx module.

IX 4200-9 supports local control and diagnostics by using a 2-line by 40-character LCD display and keypads on the front panel, or by using a VT-100 terminal connected to the console port. The IX 4200-9 also supports Ethernet, Telnet, and SNMP, so it can be controlled and diagnosed from remote locations. The IX 4200-9 also supports in band Management, where management data is carried the same way as user data, traversing national networks. In the case one IX4200-9 must use one card router RT to access to 32 equipments.

APPLICATION ILLUSTRATIONS



ORDERING INFORMATION

Model	Description	Note
Main Unit		
IX 4200-9	Main unit w/ CPU and DCS, w/o power	Basic Chassis
Administration model		
IX4200-9-SNMP	SNMP Card with alarm relay output	
Low Speed Module (Select 1 to 9 cards.)		
IX 4200-T1	T1 interface card	
IX 4200-E1	E1 interface card 75 and 120ohms	
IX4200-E1-FO-MM	E1 interface card over fiber optic, use 2 single fibers Multi-mode 1310nm with a budget for 2km,	SC/PC connector
IX4200-E1-FO-SMxx-cc	E1 interface card over fiber optic use 2 single fibers Single-mode with a budget for xx km (xx=30 or 50km in 1310nm - 20 or 100km in 1550nm),	cc =connector can be SC/PC or FC/PC
IX4200-E1-FO-SM-W13-SC	E1 interface card over fiber optic, use 1 single fiber in WDM mode single-mode 1310 with a budget for 30km,	At the other end of the fiber, it must be connected to a IX4200-E1-FO-SM-W15-SC, SC/PC connector
IX4200-E1-FO-SM-W13-SC	E1 interface card over fiber optic, use 1 single fiber in WDM mode single-mode 1550 with a budget for 30km,	At the other end of the fiber, it must be connected to a IX4200-E1-FO-SM-W13-SC, SC/PC connector
IX 4200-V35	V.35/DB25F interface card	n x 64kbps
IX 4200-E530	EIA530 interface card DB25F	n x 64kbps
IX 4200-RS232	RS232 interface card DB25F	Synchronous only 64/128kbps
IX 4200-X21	X.21 interface card DB15F	n x 64kbps
IX 4200-QFXS	Quad FXS voice card	■ For AC, -48Vdc power supply only.
IX 4200-QFXO	Quad FXO voice card	
IX 4200-PLAR	PLAR voice card	
IX4200-Q2EM-m-Tn	Quad 2 Wire E&M voice card	■ For AC or -48Vdc power supply only. ■ Where m = B for normal E&M, or TO = A for tandem operation n = 1 to 5 of E&M Signaling Type = O for TO
IX4200-Q4EM-m-Tn	Quad 4 Wire E&M voice card	
IX4200-GSHDSL	G.SHDSL 2 wire interface card	Compatible with CopperLAN, MD400-E1 and MD4200 modem.
IX4200-AFRE	E1 Frame Relay to ATM inter-working or Frame Relay to Frame Relay concentration	
IX 4200-RT	Dual LAN port (10 & 10/100 BaseT) Router card, w/ Subnet management (SNMC)	
IX 4200TS3-RS232	Terminal Server interface card	
IX 4200-G703-64	Co-directional interface card	

Power Module (Select one.)

IX 4200-SA	Single AC (110-240 VAC, 50-60Hz) power supply	Select one.
IX 4200-SD24	Single DC supply (24 Vdc)	
IX 4200-SD48	Single DC supply (48 Vdc)	
IX 4200-DD24	Dual feed dual DC supply (24 Vdc)	
IX 4200-DD48	Dual feed dual DC supply (48 Vdc)	

IX 4200-9 MuxMaster/ Wideband IAD Product Specification

Time Slot Interchange

Less than 400 ms delay
One active map, one user stored map

Voice Channel Conversion

A-law to m-law G.711
CAS Signaling Transparent, (A=0 from E1 becomes A=0 to T1, etc.)

Electrical Power

Field changeable 30W 24Vdc or 30W 48Vdc power supply module
DC : 24Vdc, 3A Max.
48Vdc, 1.6A Max.
AC : 90 to 240 Vac, 50/60 Hz, 2A Max.

Physical

Dimensions	43 x 4.4 x 33 cm, 17" x 1.75" x 13" (WxHxD)
Temperature Range	0 – 50 °C
Humidity	0 – 95% RH (non-condensing)
Mounting	Desk-top stackable, 19/23 inch rack mountable
Weight	7.7 lb., (3.5Kg) without plug-in cards

Performance Monitor

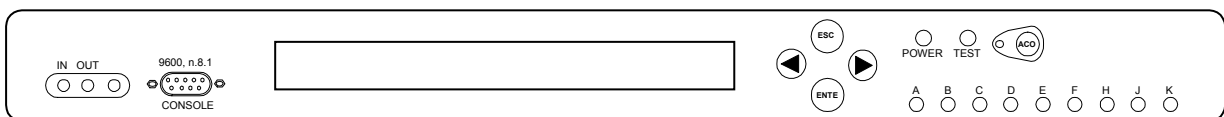
Performance Store	The last 24 hours performance in 15-minute intervals
Monitor Registers	Line, user
Performance Reports	Date & Time, Errored Second, Degraded Minutes, Unavailable Second, Bursty Errored Second, Severe Errored Second, Controlled Slip Second, and Loss of Frame Count
Alarm History	Date & Time, Alarm Type (i.e. Master Clock Loss, RAI, AIS, LOS, BPV, ES, CS)
Threshold	Bipolar Violation, Error Second, Unavailable Second, Controllered Slip Second

Network Management

Connector	DB9 at front panel
Electrical	RS232 interface
Protocol	Menu driven VT-100 terminal

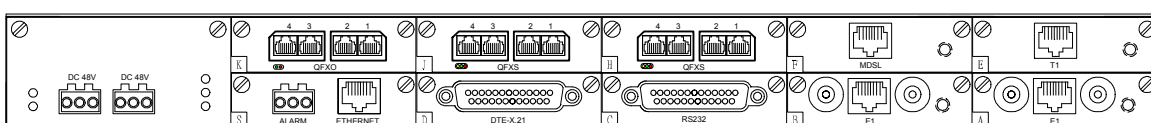
Ethernet Port (optional)

Front panel



Keypads	5 keys, ACO (alarm cut-off), left and right arrows, ESC, and ENTER
LCD	2 lines by 40 characters LCD display
LED	12 - one for each of 9 plug-in slots, power, test, and alarm
Bantam Jacks	Network IN, OUT, and Monitor

Rear panel



Power module slot (on the left), (S) SNMP slot, and 9 interfaces slots (A to K).

Compliance

CISPR 22 Class A, EN55022 Class A, EN50081, EN50082, FCC Part 15, FCC Part 68, CS-03 Issue 8, CE168X, NTR4, UL1950, CSA22.2 No.950, EN60950, NEBS Level 3: GR-1089-CORE, GR-63-CORE

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