

## RC3000-15 and DXC Module

Raisecom's RC3000-15 represents a new generation of intelligent multi service access concentrator designed for cost-effective utility network access applications. It provides full range of voice and digital data services to subscribers located at different locations where voice and data connections are required over E1/STM-1 circuits.

The RC3000-15 Multi Service Access Node, whose kernel is a powerful cross connection matrix, is integrated with the functions of digital/analogue access, multiplexing, cross-connecting, transmitting, inverse multiplexing and protocol converting. The 19-inch 6U-high RC3000-15 provides access for a variety of interfaces, including STM-1, 8/16 optical E1, Electrical E1, FXO, FXS, E&M, analog voice trunk, hot-line, magneto telephone, RS232, V.24, RS422, RS485, G.703, V35, and Ethernet. The RC3000-15 has capacity for 13 single slots and 2 PSU slots. These interfaces are compatible with other Raisecom's products such as the OPCOM3500E (SDH), the RC3000-6 and the RC3000E.

Raisecom's network management platform NView NNM can be deployed for real-time monitoring, alarm indication, management and maintenance.



RC3000-15



RC3000-15-DXC

### Highlights

- Resiliency & Protection** Supports STM-1 and optical/electrical E1 redundancy protection with switching time less than 50ms
- High capacity cross connection capability** Supports 128 E1s digital cross connection with redundancy DXC modules protection
- TDM and Ethernet Compatibility** Supports up to 4 STM-1 and 2 GE ports to aggregation service data to Legacy SDH network and IP network
- Multiple interface at customer premises** Supports digital/ analog voice, data and Ethernet services, particularly attractive to transportation, utilities and government market
- Easy Management** Management via Telnet, CLI, SNMP management

### System capacity

Item	RC3000-15
Chassis (high)	7U
Number of Service-slots	13
STM-1	4
GE uplink	2



Max. E1 channels	88
Cross-connect capacity	256Mbps
Max. FXO/FXS channels	352
Max. E&M channels	176
Max. V.35 channels	88
Max. V.24 channel	88
Max. RS232 channels	176
Max. FE channels	88
Max. G.SHDSL ports	88

## Typical Application

### SCADA application of Multi Service Access Node



## Key Features

<b>Uplink Interface</b>	STM-1, GE and optical/electrical E1 uplink Dual-optical interface product supports optical protection switch Auto-Laser-Shutdown for fiber port protection
<b>Voice Interface</b>	FXS, FXO, FXS-FXS (Hot-line), 2/4wire E&M, Magneto Telephone
<b>Data Interface</b>	RS232 Asynchronous Data Interface 300 bps - 19.2Kbps V.24 Synchronous Data Interface 64Kbps - 128Kbps RS422 Asynchronous Data Interface RS485 Asynchronous Data Interface 300 bps - 19.2Kbps G.703 co-directional at 64Kbps Data Interface V.35 Synchronous Data Interface N×64 Kbps (N=1~31) 10/100Base-T Ethernet Interface FE aggregation interface 64kbps - 16Mbps G.SHDSL Data Interface N×64kbps (N=1~31)
<b>Clock</b>	2Mbit/2MHz SSM Support extract line clock from other service card
<b>Alarm Input/Output</b>	1x alarm input 1xalarm output
<b>Cross Connection</b>	128 E1 non-block cross connection
<b>1+1 Back-up</b>	Supports
<b>Hot Swappable</b>	Supports
<b>Software Upgrading</b>	Supports upgrading software online
<b>Management</b>	Management via Telnet, CLI, SNMP management

## Specifications

<b>SNMP Interface</b>	1xSNMP interface with RJ45 connector for management
<b>NM-EXT Interface</b>	1x NM-EXT interface with RJ45 connector for cascading management
<b>Console Interface</b>	1x console with RJ45 connector
<b>SYNE-RX/TX</b>	1x external clock input interface with CC3 connector 1x external clock output interface with CC3 connector
<b>Power Specs</b>	Chassis: DC: -48V input power supply card AC: 220V input power supply card DXC card:

## Compliances

<b>Standards &amp; protocols</b>	ITU-T G.703 ITU-T G.704 ITU-T G.706 ITU-T G.707 ITU-T G.711 ITU-T G.712 ITU-T G.713 ITU-T G.714 ITU-T G.732 ITU-T G.813 ITU-T G.821 ITU-T G.823 ITU-T G.825
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User Conditions	DC: 5V hot-swappable Power consumption: ≤10.0W Operating temp: -5~50 °C; Storage temp: 10~20 °C; Humidity: ≤90% non-condensing	ITU-T G.826 ITU-T V.35 ITU-T V.24 ITU-T V.11 ITU-T V.28
Dimensions	Chassis: 248(D) x 440(W) x 311(H) mm <sup>3</sup> Cards: 225(L) x 25(W) x 240(H) mm <sup>3</sup>	IEEE802.3x IEEE802.3u IEEE802.1q VLAN SNMPv1/v2c/v3
Weight	Card: 0.45Kg	CE marking EMC Class B RoHS compliance

## Ordering Information

<b>RC3000-15-A</b>	RC3000-15 Multi-Service Access concentrator chassis with back board 6U-high chassis with 15 module slots.
<b>RC3000-15-DXC</b>	Master Control Card, 128 E1 cross-connect of 64k timeslot, 1+1 protection, network management, power consumption less than 10W.
<b>SUB-PWR II-DC-300</b>	DC -48V input power supply board output DC +5V, DC -5V, ringing current, DC -48V power feed.300 watts
<b>SUB-PWR II-DC-300-CEUL</b>	DC -48V input power supply card, output: DC +5V, DC -5V, ringing current, DC -48V power feed. 300 watts (STM1) . It has passed the CE and UL certification
<b>SUB-PWRM-AC</b>	AC 220V input power supply card, output: DC +5V, DC -5V, ringing current, DC -48V power feed. 600 watts Supporting voltage monitor function and the output and input Voltage alarm threshold can be set by software.
<b>SUB-PWRM-DC</b>	DC -48V input power supply card, output: DC +5V, DC -5V, ringing current, DC -48V power feed. 300 watts Supporting voltage monitor function and the output and input Voltage alarm threshold can be set by software.
<b>SUB-BITS-CLK</b>	Insert on the DXC card to provide 2Mbit and 2MHz external clock function.