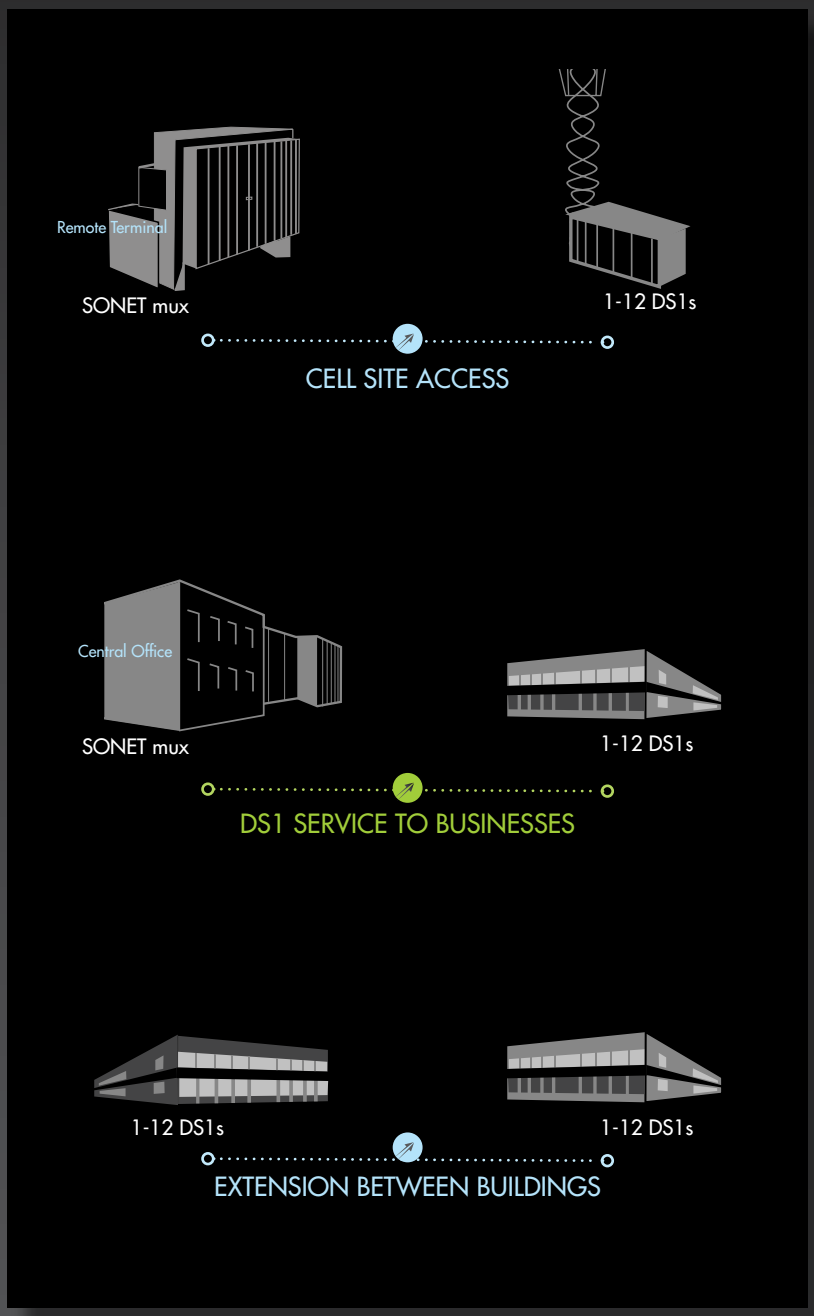
SONET EXTENSIONS

O3-12D1DN



The O3-12D1DN provides a SONET Extension of 1-to-12 DS1s while eliminating the need for software, separate common equipment, power supplies, T1 termination electronics and proprietary mountings. The O3-12D1DN does it all – it can even be plugged into many existing T1 Smart Jack housings to enable immediate fiber cutovers and avoid the cost, time and logistics necessary to install new cabinets.

APPLICATIONS

- Cell Site Fiber Upgrades – higher bandwidth, better lightning protection
- Business fiber upgrades
- DS1 extensions up risers or between buildings

FEATURES

- Service in Minutes
  - Patent pending Optionless SONET
  - No common cards or proprietary shelves
  - 24Vdc, 48Vdc, 120Vac or span powering
- SONET Compliant
  - Fiber extensions from existing higher order muxes
  - Transparent TL-1 NMA access via DCC
  - A full range of OC3 optics: single fiber, standard 1310 and 1550nm, CWDM
- Bookend Capability
  - A key capability to leverage existing legacy muxes and conserve fiber
  - RJ45 Ethernet NMA TL1 access to both CO and RT units
- Climate Hardened
  - GR-3108 Class 3 temperature requirements
  - Built-in GR-1089 OSP lightning protection

MIGRATION STRATEGY

Pulsecom access modules are designed for changing subscriber service needs. The O3-12D1DN, which provides 12 DS1s over OC3 SONET, can be replaced by an O3-3D3DN (in the same or different physical card slot) to upgrade to SONET-based DS3 service.When a site is ready for Native Ethernet based service, any of these cards can be replaced with the O3-12D1G, for simultaneous TDM and Ethernet.

INTERFACES

Optical Interface: SFP optics for support of standard 1310/1550nm, CWDM, bidirectional single fiber or multimode fiber.

DS1 Interface: 50 pin AMP Champ RJ38H connector. Stub-ended cables and bulkhead RJ48C demarc connections are available

Craft Port: RS232, female DB-9 port for PC running Hyper Terminal or other VT-100 emulation.

Management Port: RJ45 100BT Ethernet for NMA TL1 access.

APPLICABLE STANDARDS

GR-253-CORE (SONET)
GR-499-CORE (DS1)
GR-820-CORE (DCC)
GR-63-CORE (NEBS)
GR-1089-CORE (NEBS)

SPECIFICATIONS

Size: 5.6 x 1.4 x 5.9 in. (HxWxD), Type 400 mechanics
Power Dissipation: 14 W nominal
Input Voltage: 20 to 56.7 VDC
Nominal Current: 295mA at -48V, 590mA at 24V
Operating Temperature: -40° to 70° C

ORDERING CODE O3-12D1DN

PULSECOM

fiber backhaul

energy efficiency

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