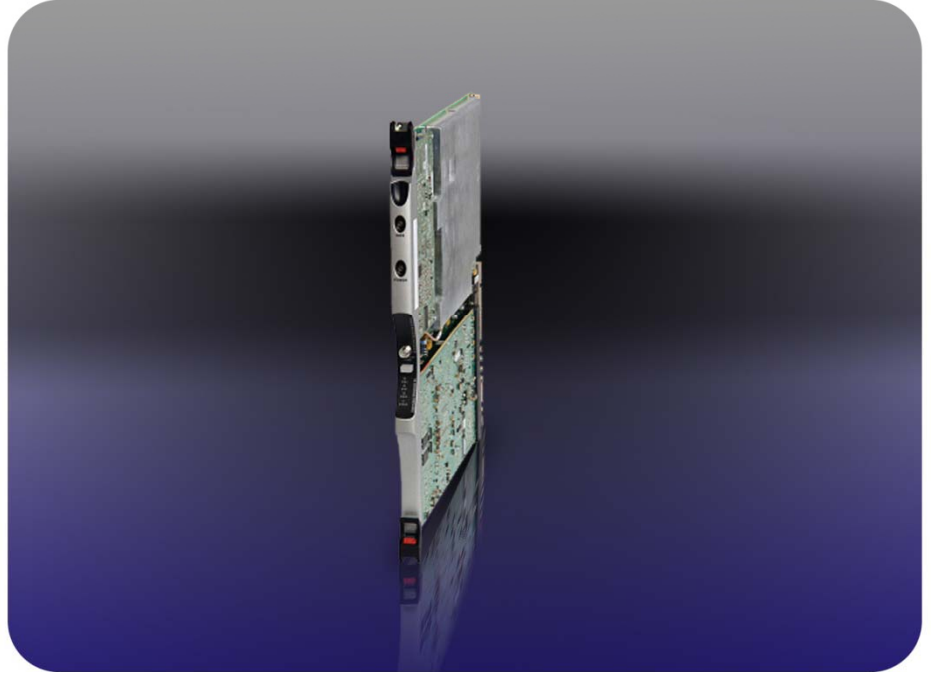# C4® and C4c™ CMTS

16D Cable Access Module

Features

- DOCSIS® 3.0 downstream channel bonding
- Legendary C4 CMTS integrated "hitless" RF sparing
- Hot Swappable
- Supported in all C4 and C4c CMTS chassis
- XD Field Software Upgrade for deployed 16D CAMs via software license key

Application

The ARRIS C4® and C4c™ 16 Downstream Cable Access Module (16D CAM) supports sixteen DOCSIS® or EuroDOCSIS™ 3.0 downstream channels. These channels are grouped onto four upconverters with four Annex A or Annex B channels per upconverter. The Physical Interface Card (PIC) of the 16D CAM is has four F-connectors with each F-connector connected to the output of one of the upconverters. Each downstream channel on the same upconverter/F-connector must have a unique center frequency, but the channels are not required to be contiguous. The downstream channels on a single F-connector can span up to 80MHz of spectrum, allowing an MSO flexibility in choosing DOCSIS downstream frequencies.

DOCSIS 3.0 Downstream Channel Bonding

The 16D CAM supports DOCSIS 3.0 downstream channel bonding with variable size bonding groups. This allows for the aggregation of two or more DOCSIS channels to support ultra high bandwidths. For example, Release 7.4 supports up to eight bonded downstream channels. With Annex B channels, eight channel bonding provides a 320Mbps data stream to a subscriber's DOCSIS 3.0 cable modem.

ARRIS FlexCAM™ RF Sparing Technology

The C4 CMTS contains patented FlexCAM technology that provides fully integrated "hitless" RF sparing. This sparing includes support for multiple 16D CAM RF sparing groups, the size of which can vary from one to seven active 16D CAMs. If a failure occurs on a 16D CAM with "hitless" RF sparing, the spare 16D CAM automatically replaces the failed module so that all of the cable modems remain in service with minimal packet loss.

Product Flyer

Legacy DOCSIS 2.0, 1.1, and 1.0 Cable Modem Support

All channels on the 16D CAM can support DOCSIS 3.0, including channel bonding, as well as DOCSIS 2.0 and 1.x modems at the same time. Further, no external timing server is required thus minimizing total system cost and increasing system availability.

Flexible Upstream-to-Downstream Channel Mapping

Each downstream channel on the 16D CAM can be associated with any upstream channel on a 12U CAM in the chassis. This allows the operator to "right size" the upstream-to-downstream ratio for each service group. This flexibility reduces capital costs as less channels will sit idle compared to a system with a fixed upstream-to-downstream ratio.

Supported in Existing C4 and C4c CMTS Chassis

The 16D CAM protects the operator's investment as it is supported in all previously deployed C4 and C4c CMTS chassis when paired with the Router Control Module (RCM) and the 12U CAM.

XD Field Software Upgrade

16D CAMs deployed in a C4 or C4c CMTS with system software Release 7.4 can be field software upgraded to eXtended Downstream (XD) operation with the purchase of a license key. A 16D CAM upgraded to XD can support 24 Annex A or 32 Annex B downstream channels. The XD field software upgrade option allows operators to increase the number of downstream channels without purchasing new hardware.

www.arrisi.com

Find more information about 16D Cable Access Module and other C4® and C4c™ products.

- Product Specifications — 16D Cable Access Module Technical Specifications (Publication Code: C4_CMTS_16D_TS.pdf)

Customer Care

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