

MODEL
HEADEND OPTICS
PLATFORM (CH3000)

CH3000C and CH3000N
Chassis



FEATURES

- 3RU stackable without spacer requirement
- Mid-plane supports power and management system
- All slots are identical: any combination of modules can be installed in any slot
- Up to 14 active full-depth modules and one power supply
- Up to 32 passive half-depth modules (unpowered chassis)
- Patented dynamic back plates for true plug and play
- Supports front and rear module plug-in
- Supports remote SNMP management
- Optional fiber management adapter and fiber routing shelf accessories available



PRODUCT OVERVIEW

The model CH3000 is ARRIS's advanced mid-plane, 3RU chassis design, which offers the network operator a platform featuring maximum flexibility, high packaging density and simplicity of operation. The CH3000 is ideal for all types of optical networks, single wavelength, CWDM or DWDM, and for both Analog and Digital transmission techniques.



The CH3000 incorporates the unique combination of two patented design features, the mid-plane platform concept and dynamic back plates on all active modules. The mid-plane provides the DC power bus, the universal communications bus (supporting local and remote SNMP management) and facilitates the installation of modules from either the front or the rear of the chassis. Dynamic back plates simplify pre-wiring of the chassis; module replacement can be accomplished from the front of the chassis without disconnecting/reconnecting cables at the back of the chassis. The combination of mid-plane platform design and the dynamic back plate feature on all active modules makes the CH3000 the industry’s most flexible, configurable and future-proof platform for traditional HFC, passive HFC and fiber-to-the-home (FTTH) networks.

The CH3000 also features a very high packaging density design accommodating a wide variety of both active and passive modules. Modules, depending on function performed, are either half platform depth or full platform depth and single or dual width. The CH3000 accepts up to 32 half-depth passive modules or 14 full-depth active modules and a power supply module or configurations combining the use of both full-depth and half-depth modules. The high packaging density and configuration flexibility make the CH3000 ideal for both headend and hub applications where rack space is at a premium.

The CH3000 is available in two configurations: Model CH3000C with top and bottom decorative covers and Model CH3000N without the top and bottom decorative covers. An optional fiber management adapter and fiber routing shelf accessories are also available.

ARRIS’ products and solutions can help cable operators attain new subscriber revenue and higher average revenue per subscriber without major CAPEX. Cable operators can seamlessly and easily stay in line with future goals, add new services, and strongly position against the competition.

RELATED PRODUCTS

Optical Transmitters	Optical Passives
Digital Return	Optical Patch Cords
BP Back plates	Installation Services

SPECIFICATIONS

Characteristics	Specification
Physical	
Dimensions	13.3" D x 5.22" H x 19.0" W (3RU) (34 cm x 13.5 cm x 48.5 cm)
Weight	<ul style="list-style-type: none"> • CH3000N 9.6 lbs (4.5 kg) Chassis without covers • CH3000C 15.6 lbs (7 kg) Chassis with top and bottom covers
Slot Configuration	<ul style="list-style-type: none"> • 16 full-depth slots • 32 half-depth slots (16 front-loaded and 16 rear-loaded)
General	<ul style="list-style-type: none"> • All slots are identical (no specific slot allocation) • Supports any combinations of modules
Environmental	
Operating Temperature Range	-20° to +65°C (-4° to 149°F)
Storage Temperature Range	-40°C to +85°C (-40°F to +185°F)
Humidity	5% to 95% non-condensing
Electrical	
	32 midplane electrical interconnects (16 front and 16 rear), providing contacts for chassis alarm, slot address, RS-485 communication and 12 V _{DC} power bus Supports hot plug-in of modules

ORDERING INFORMATION

C	H	3	0	0	0	*
---	---	---	---	---	---	---

3RU Chassis

* = C (with covers) or N (without covers)



CH3000C



CH3000N

Note: Specifications are subject to change without notice.

Copyright Statement: ©ARRIS Enterprises, LLC, 2016. All rights reserved. No part of this publication may be reproduced in any form or by any means or used to make any derivative work (such as translation, transformation, or adaptation) without written permission from ARRIS Enterprises, LLC ("ARRIS"). ARRIS reserves the right to revise this publication and to make changes in content from time to time without obligation on the part of ARRIS to provide notification of such revision or change. ARRIS and the ARRIS logo are registered trademarks of ARRIS Enterprises, LLC. Other trademarks and trade names may be used in this document to refer to either the entities claiming the marks or the names of their products. ARRIS disclaims proprietary interest in the marks and names of others. The capabilities, system requirements and/or compatibility with third-party products described herein are subject to change without notice.