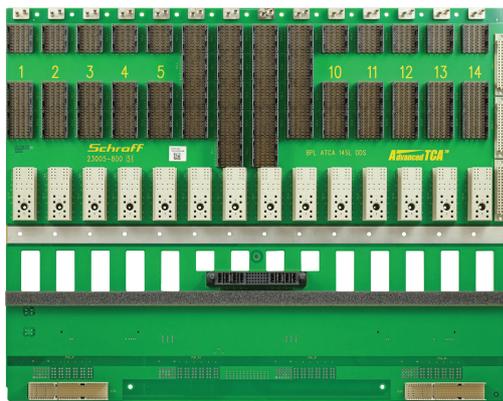


# 100 Gbps AdvancedTCA Backplane

## FOR EVEN FASTER DATA TRANSFER

The first nVent 100 Gbps SCHROFF AdvancedTCA backplane from nVent has been verified according to the design requirements of the PICMG 3.1 R3.0 specifications for 100 Gbps

Ethernet. The high data transmission rates of 100 Gbps presented new challenges for connectors, printed circuit board material and backplane design.



ATCA 100 G Backplane with new ZD connector



100G Backplane assembled into SCHROFF NextGen ATCA Chassis

### ADVANTAGES AND BENEFITS

- Guaranteed 100 Gbps performance through extensive in house verification
- 2.5x higher data rate than the current 40 Gbps ATCA backplanes / systems with the same form factor
- Backward compatible to 40 Gbps / 10 Gbps ATCA backplanes
- Uses specially developed ZD connector and PCB material for high speed 100 Gbps requirements

### TECHNICAL DETAILS

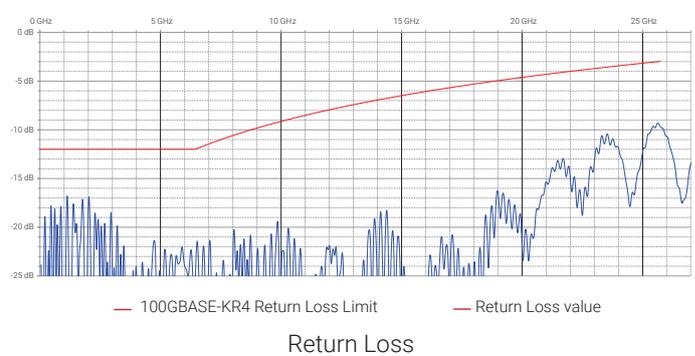
- 100 G backplane with 14 slots, dual-dual star topology, radial or bussed IPMB
- Prepared for two SCHROFF shelf managers with Pigeon Point ShMM 700
- Conforms to AdvancedTCA Standard PICMG 3.0 rev.3.0 and PICMG 3.1 rev.3.0

# SCHROFF 100 Gbps AdvancedTCA Backplane

## TEST RESULTS

The following graphs show test results for the Insertion Loss and Return Loss of the SCHROFF 100 G backplane (blue line) in comparison to the requirements of the 100 Gbps specification

IEEE802.3bj (red line) on one of the longest transmission paths. The COM ( Channel Operation Margin ) value of all differential pairs are min. 2 dB above the allowed limit in the PICMG3.1R3.0 .



## ORDER DETAILS ABOUT ADVANCEDTCA 450/100 SERIES

Item number	Description	Backplane type
11990-140	AdvancedTCA 450/100 series, 14 slot, DC	Dual-Dual Star, 100 Gbps, bussed IPMB
11990-141	AdvancedTCA 450/100 series, 14 slot, DC	Dual-Dual Star, 100 Gbps, radial IPMB

For Further Information Please Visit : [nVent.com/SCHROFF](http://nVent.com/SCHROFF)

### Europe

Straubenhardt, Germany  
Phone: +49 7082 794 0  
Betschdorf, France  
Phone: +33 3 88 90 64 90  
Warsaw, Poland  
Phone: +48 22 209 98 35  
Hemel Hempstead, Great Britain  
Phone: +44 1442 24 04 71  
Lainate, Italy  
Phone: +39 02 932 714 1

### North America

All locations  
Phone: +1-800-525-4682

### Middle East & India

Dubai, United Arab Emirates  
Phone: +971 4 37 81 700  
Bangalore, India  
Phone: +91 806 715 2001  
Istanbul, Turkey  
Phone: +90 216 250 7374

### Asia

Shanghai, P.R. China  
Phone: +86 21 2412 6943  
Singapore  
Phone: +65 6768 5800  
Shin-Yokohama, Japan  
Phone: +81 45 476 0271



[nVent.com](http://nVent.com)

Our powerful portfolio of brands:

CADDY ERICO HOFFMAN RAYCHEM SCHROFF TRACER