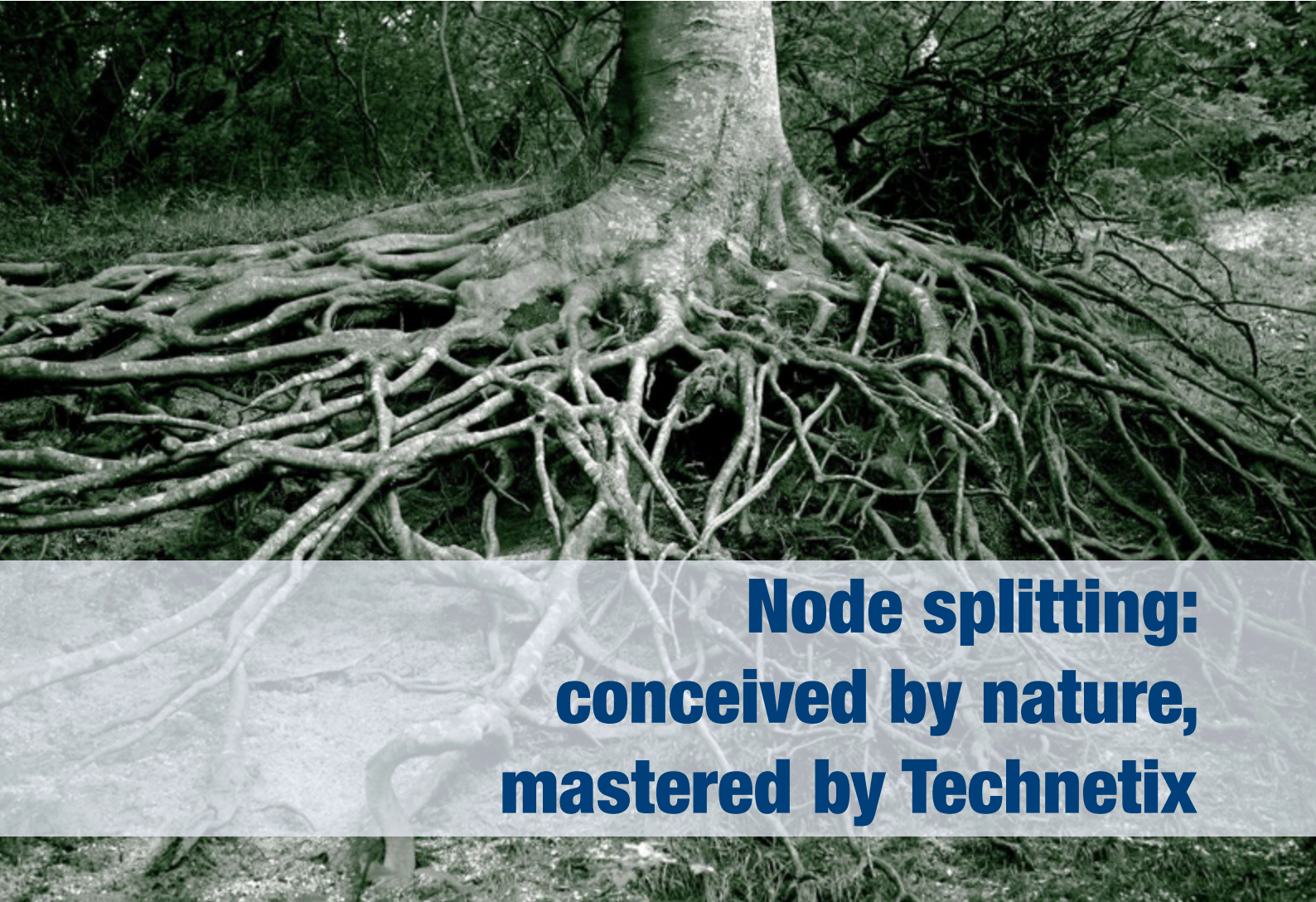


technetix



Node splitting: conceived by nature, mastered by Technetix

The Technetix DS-192 is a fully-redundant system that combines state-of-the-art amplifiers/monitoring, wideband splitters and management control software to offer:

- Downstream dividing of a single input to feed up to 192 outputs with unity gain
- Either local (via the parent amplifier front panel) or remote control (via SNMP from a web-connected computer)
- A compact, modular system for the optimum package of dependability, flexibility, and efficiency

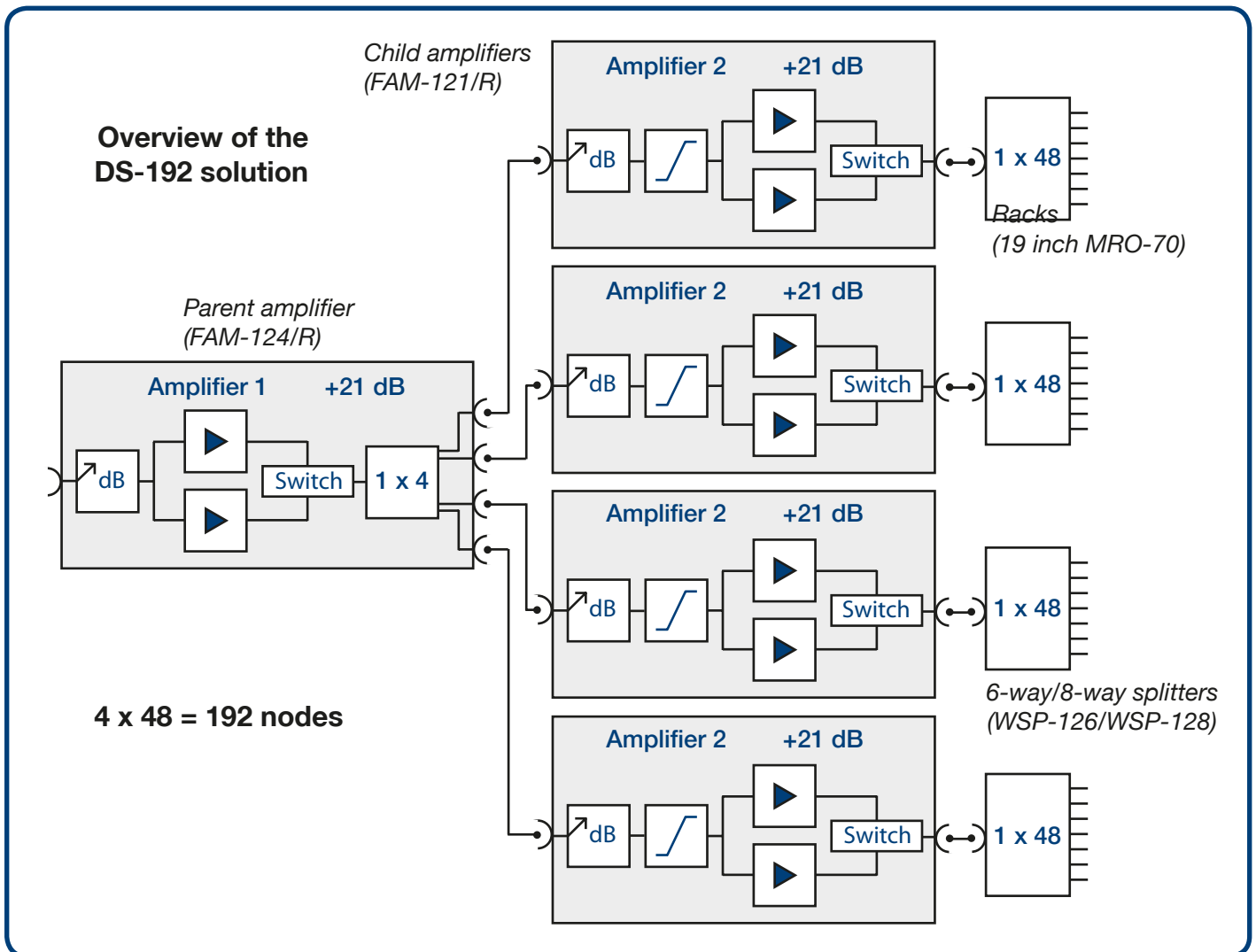
Introducing the Technetix DS-192 downstream dividing solution

The implementation of new services and the ever-growing demand for higher bandwidths in broadband networks require a number of adaptations to the headend and/or the hub.

Node splitting is one of the challenges to be taken up. More nodes means more optical transmitters, and this means more signal dividing while maintaining transmission signal integrity and RF isolation performance. Reliability is also crucial as signal interruptions need to be avoided in order to guarantee service at all times.

The DS-192 downstream dividing solution answers all of these demands and more. Designed to be used in headend applications, it is a robust, modular system that allows one input to be split into up to 192 outputs with unity gain and full redundancy for amplifiers and power supplies.

Technetix' DS-192 solution combines unique amplifier and splitter technology, all managed by our network management system software. It has been specifically engineered for maximum reliability, whilst its modular nature and small equipment design offers flexibility for implementation into any network.



Benefits of the DS-192 downstream dividing solution:

- Feed up to 192 nodes with unity gain
- 0 dB to 15 dB gain control in 0.5 dB steps
- 0 dB to 7 dB slope control in 0.5 dB steps
- CSO and CTB greater than 70 dBc at 90 dB μ V output level
- Flatness +/- 0.7 dB typ
- Low noise figure less than 12 dB
- Carrier to noise greater than 70 dB
- Redundant amplifiers 1,006 MHz
- Redundant power supplies 48 V
- Hot swappable power supply and amplifier
- Extremely high-class port to port isolation
- SNMP monitoring
- LCD display for local monitoring and configuration
- Modular in 1 RU and 3 RU 19 inch mechanics

The DS-192 solution consists of:

- 1 x FAM-124/R amplifier/controller
- 4 x FAM-121/R amplifiers/controllers
- 2 x MRO-70 racks
- 4 x WSP-126 6-way splitters
- 24 x WSP-128 8-way splitters

Amplifiers

The FAM-124/R parent amplifier utilises one input and four outputs, and has a fixed slope alongside 21 dB of gain. The unit monitors the amplifier's temperature, main input and output RF levels, and power supply voltages. It also monitors the child units, and can be used to control them locally via push buttons and an LCD screen, or remotely via Technetix software and a ULC-100 USB converter. All modules are pluggable and can be exchanged without opening the unit, while both the amplifiers and power supplies are hot swappable.



The FAM-121/R is the child unit of the FAM-124/R, and contains two redundant forward amplifiers, two redundant power supplies, and a monitoring and control unit. Amplifier and power supplies are hot swappable, and settings for RF levels, slope and amplifier redundancy detection are set via the FAM-124/R parent unit.

Status can be read (and settings changed) using a computer with Technetix software and the ULC-100 USB converter. The unit's operation and functionality is identical as the FAM-124/R, except that there is no display and no programming buttons, and it features a slot to place a splitter from the Octos Mk-II passive WSP range to create up to eight extra outputs.

Both the FAM-121/Rs and the FAM-124/R can be used as a high-quality standalone headend amplifier, and a range of applications can be made using the Octos passive splitter line. Each plug-in amplifier is available with 21 dB and 28 dB gain.

Splitters

Octos Mk-II passive splitter modules (6-way WSP-126s and 8-way WSP-128s) are used to create a 48-way divider. In the new WSP line there are 2-way, 3-way, 4-way, 6-way, and 8-way splitters, allowing a range of different divisions to be configured.



Control software

Technetix software offers remote control of the system, and can be easily implemented into existing network management systems through the SNMP interface. Parent and child amplifiers can be controlled via a web-connected computer using local control software accessed via a ULC-100 USB converter. The software utilises a simple yet robust protocol, and allows interconnection between devices using coaxial cables with standard F connectors.

For more information, email us on sales@technetix.com or call one of our team on +44 (0)1444 251 200.

People within Technetix have a deep understanding of hybrid fibre coax technology, and our products play a critical role in enabling network subsystems and components to deliver broadband services to consumers in the best possible way.

Not only can we deliver significant capital and operational savings to our customers, but our patented, custom designed product solutions help them address their network issues as well. As a result, you'll find our product solutions embedded throughout networks across the world.