



ICON™ series

# ICON3100 INTELLIGENT 1.8 GHz AMPLIFIER

A new generation of intelligent line extenders broadens our offering for the North American cable broadband market and its requirements. The ICON3100 amplifier stands out as a future-proof choice in the network evolution towards DOCSIS® 4.0 and the logical step of upgrading coaxial systems to a 1.8 GHz design.

Maintaining backward compatibility has been one of the key design principles in the new ICON3100 line extender. Although they support 1.8 GHz and future DOCSIS 4.0 rollouts, they can also be used in lower frequency networks. In such cases, the award-winning Power Save technology enables lower power consumption. Features such as Automatic Level and Slope Control (ALSC) and intelligent return path control based on forward path measurements, often known as the Return Follows Forward (RFF) principle, are available for every operator needing to guarantee high network performance under all circumstances. With smart and automatic features the ICON3100 eliminates the efforts normally associated with conventional and time-consuming network operations. Take a closer look and see how its innovative yet simple design offers outstanding performance and practical functionalities.

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## ICON3100 / INTELLIGENT 1.8 GHZ AMPLIFIER

### ICON3100 features

- Supports up to 1.8 GHz downstream and 684 MHz upstream
- Native US/DS ALSC exceeding traditional AGC based designs
- Automatic alignment of US/DS
- Electrical level and slope controls
- Efficient ESD and Surge protection

### Simple to install and operate

Native intelligence facilitates true plug-and-play functionality, providing operators easy alignments in the field with a press of a single button.

### Easy management even on the site

The amplifier can be accessed locally via a USB port. The USB port also enables wireless local management via BT connection and Teleste Commander application for Android smartphones and tablets.

### Maximizing the benefits of intelligence

For maximum remote monitoring and control possibilities, an optional transponder plugin unit is available with the ICON3100 amplifier.

- control remotely and monitor quality of upstream signal
- stop ingress automatically before your customers are disturbed
- monitor parameters for preventive network diagnostics

### Modular connectivity

ICON3100 1.8 GHz intelligent amplifier is available in either RF modules compatible with North American legacy housings or Teleste's ICON3000 housing designed for harsh outdoor conditions.



### No bench upgrades

The split change process and needed verification of forward and reverse signals, do not require a separate test environment. Automatic alignments take place when diplexers have been changed in the field.

### High performance

The amplifier stages are based on high-performing 4<sup>th</sup> generation GaN hybrids, widening the usable gain ranges and allowing high output levels without compromises.



**ICON3100 Intelligent 1.8 GHz line extender is especially designed for the North American cable broadband market and its requirements.**

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TELESTE CORPORATION  
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