

Key Features

- Ninth-generation DSP and integrated AFE functionality in a single device
- On-chip vector processor and VCE, lowering system complexity and cost
- Optimized for 16 channels of G.fast 212a
- Supports all VDSL profiles up to 35b, with G.fast/G.vector coexistence allowing independent DPU/CPE installations
- G.vector and G.fast bonding
- <800mW per line (including Line Driver)

BCM965450_212

16-Port G.fast Evaluation Platform

Overview

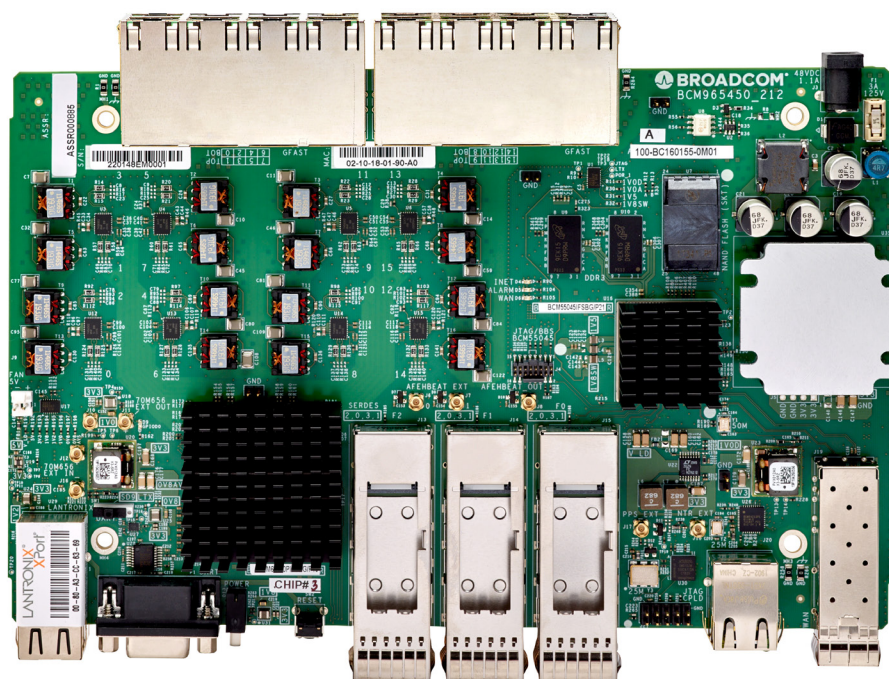
The Broadcom® BCM965450_212 is a system development platform featuring a complete multimode, multiport, DPU or CPE G.fast solution from Gigabit Ethernet (GbE) uplinks to the twisted pair interface. Up to 16 lines of G.fast profile 212a are supported by this hardware.

Features

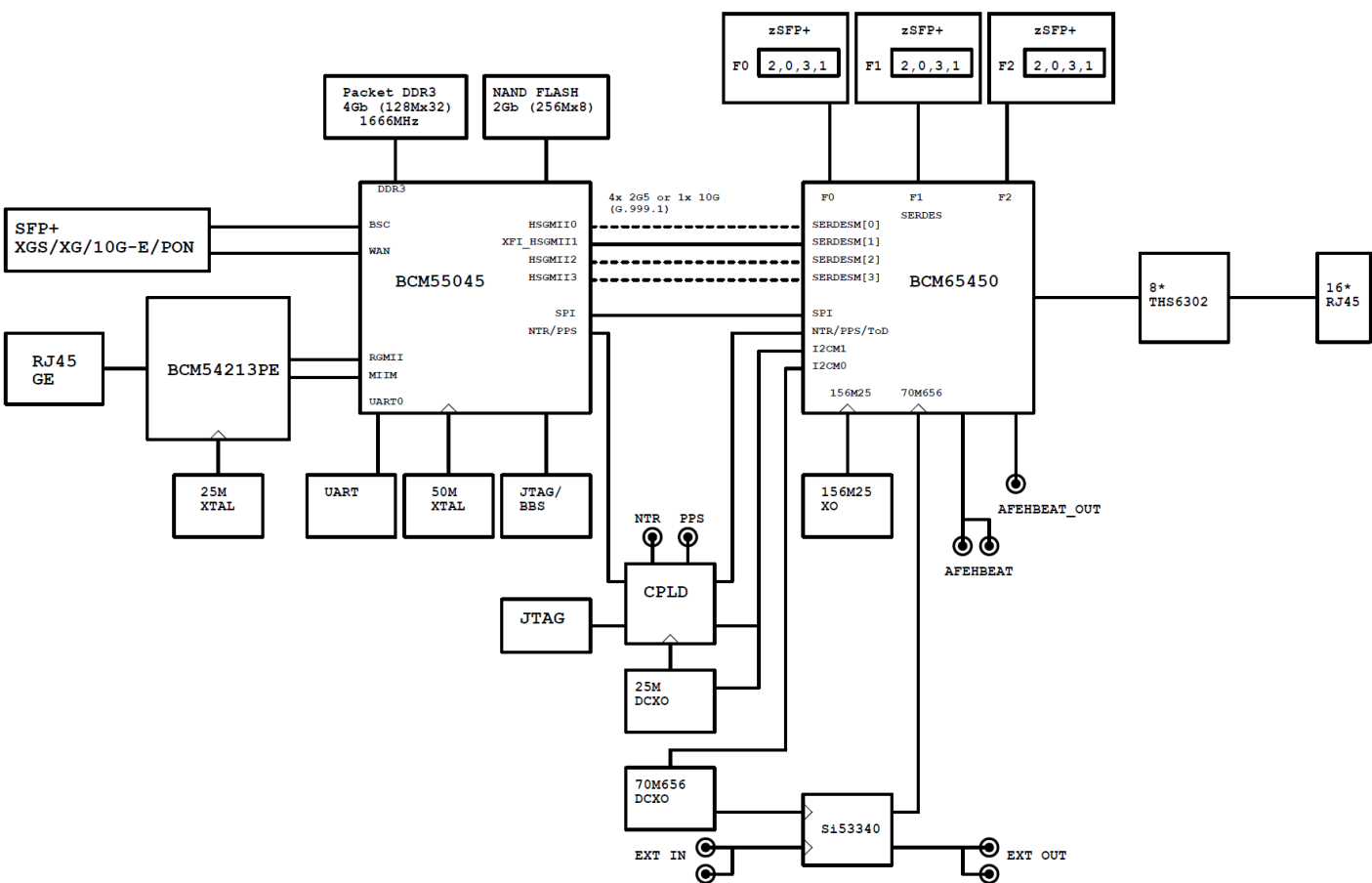
- DSL interfaces:
 - 16x G.fast 212a ports
 - Support for G.vector and G.fast on a per line basis
 - Stackable to 48p with crosstalk interconnects between boxes
- NNI interface:
 - 1x 10G SerDes via QSFP (G.999.1 required for multiline traffic)
 - 1x 10G standard Ethernet for SFP
- Support for bonding

Benefits

- Feature and performance evaluation for G.fast 212a over twisted pair interface.



BCM965450_212 Functional Block Diagram



Reference design schematics, PCB, and user manual are available on docSAFE.

Ordering Information	
Part Number	Description
BCM965450_212	16-Port G.fast Evaluation Platform