



# SDK-6.4.3-EA1 (Early Access)

## Release Notes

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## 1. Introduction

This release contains *Early Access for Bring-up* support for the following devices:

- BCM88950 A0

The subsequent section covers what is supported in the SDK-6.4.3-EA1 Software Release for this device.

## 2. BCM88950 (FE3200) Bring-up Release

Broadcom BCM88950 is the fourth generation in the Dune product line of Fabric Element (FE) devices - following BCM88750 (FE1600).

This release is the bring-up release (first post-silicon release), and should be used for BCM88950 bring-up only (wasn't validated for other devices). The version includes fixes from silicon validation.

All the BCM88950 features are implemented.

The following BCM88950 features were validated:

- SerDes/PHY
  - All supported rates and PCS modes
  - Lane swap and polarity
  - Link training (CL72/CL93)
  - PRBS and EyeScan
  - PHY and MAC loopback
  - PHY Diagnostics
- Data Path
  - UC traffic (single pipe)
  - MC traffic (single pipe)
  - TDM traffic (single pipe)
  - Backward-compatible TDM/non-TDM (dual pipe)
  - MC and UC cell Priority-Drop
- Interoperability with BCM88650/BCM88660
- Diagnostic package
  - Memory BIST
  - Internal Counters
  - MIB Counters
  - Reachability and Connectivity
  - Fabric snake test

Known issues:

- Wrong RX equalization for low SerDes rates: 6.250Gbps, 5.750Gbps.  
Workaround:  
When working with these SerDes rates, firmware loading must be disabled.  
SoC property "load\_firmware.BCM88950=0x0" should be set.
- MDIO access:  
clause 45 is not supported yet. Clause 22 must be used instead. Otherwise the initialization sequence will fail.  
SoC property "port\_phy\_clause.BCM88950=22" must be set.

