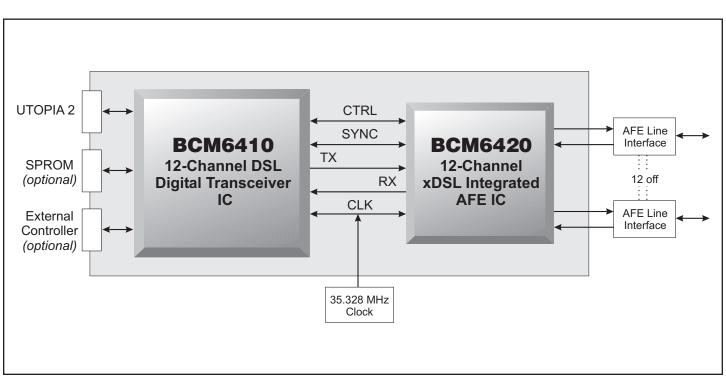# BROADCOM®

Connecting **everything**®

LOW-POWER, HIGH-DENSITY CENTRAL OFFICE ADSL SOLUTION

BCM6410/6420 FEATURES

- Low-power, high-density Central Office ADSL solution

- Lowest power per channel: less than 1W per channel (worst-case line conditions), including the line driver

- Highest density two-chip solution implements 12 channels of full-rate ADSL

- Smallest modem footprint: production ready design is just 650 mm^2 per channel, using only eight PCB layers

- Complete standards support: ANSI T1.413 issue2, ITU G.992.1 (G.dmt) Annex A, B, C & H, ITU G.992.2 (G.lite), ITU G.992.3 (ADSL2) Annex A, B, J (extended upstream), L (RE-ADSL), and ITU G.992.5 (ADSL2+)

- Fully soft modem implementation supports unprecedented feature richness

- Loop condition testing and capacity estimation on in-service lines

SUMMARY OF BENEFITS

- Superior rate-reach performance

- Proven worldwide interoperability

- System-wide power cut-back techniques deliver in-service power savings and patented power reduction technologies deliver unmatchable low-power consumption using standard class AB line drivers

- Complete G.997.1 on chip support enabling remote booting and management (processor-less line cards)

- Shared clocks and power supplies reduce line card cost

- No external devices (e.g., memory) are required

- Designed to operate with a wide range of line driver devices

- Full design-in support provided

BladeRunner™ Central Office ADSL System