

Cavium, D2 and DSP Group Debut New Gateway Design

Cavium Networks and DSP Group, Inc. have joined forces to develop a market-ready reference design for a multi-service gateway with fully integrated Digital Enhanced Cordless Telecommunications (DECT) capabilities and advanced VoIP functionality. The DECT/CAT-iq (Cordless Advanced Technology: Internet and Quality) Module from DSP Group, combined with Energy Efficient ECONA ARM-Based Processors running D2 Technologies' vPort VoIP software is designed to enable network equipment manufacturers to bring to market gateway solutions with advanced voice communications features such as high definition voice, address book synchronization and PBX functionality.

"As advanced telephony and voice features become an integral part of the broadband-connected, digital home, gateways and other broadband access devices have to provide integrated support for such features. Built-in DECT CAT-iq capabilities from DSP Group enable us to provide a gateway offering with differentiating value added product features," said Manoj Gujral, VP and GM of Broadband and Consumer Division at Cavium Networks. "In addition CAT-iq ensures a high level of consumer and business experience, advanced features and full interoperability."

The reference design includes the Cavium Networks ECONA CNS3XXX family of ARM processors, DSP Group's DECT/CAT-iq Module and D2 Technologies' vPort VoIP GW (Gateway) software package. The Cavium Networks ECONA family of ARM processors delivers a wide variety of highly integrated embedded SoC options at industry leading BOM cost and performance per watt. The ECONA processor families are targeted for use in a wide variety of network connected home and office applications ranging from retail and small office wired and 802.11n WLAN routers.

DSP Group's DECT/CAT-iq Module enables superior range, multi-line and wideband audio (HD voice). Based on DSP Group's single-chip architecture, the cost-effective and small form-factor cordless base station module can be integrated into broadband residential gateways, such as integrated access devices (IAD), cable eMTA devices, set-top boxes (STBs), IP office PBXs and passive optical network (PON) modems. DSP Group's DECT chipsets are CAT-iq 2.0 and SOUTA (CAT-iq 3.0) compliant and support all worldwide digital cordless technologies.

"This integrated reference design combines the unique capabilities of all three companies", said Oz Zimmerman, Corporate Vice President of Marketing and Business Development at DSP Group. "By providing industry's best range, multi-line and multi-handset control, natural wideband voice, advanced data services and software upgradability, DSP Group offers the best value for network connected home and office applications."

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“D2’s market leading vPort VoIP software for CPEs was already optimized for the Cavium ECONA family,” said Doug Makishima, chief operating officer for D2 Technologies. “The addition of DSP Group’s DECT/CAT-iq module to the reference platform adds more voice connectivity options for greater flexibility, integration and cost effectiveness.”

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