Feature	Customer benefit
Secure boot with standalone flashing utilities	<ul> <li>Enables storage of IP and image in encrypted form to external non-volatile memory (e.g. NAND and NOR flash)</li> <li>Allows OMAP-L138 DSP + ARM to run code on the DSP, isolated from general purpose applications running on the ARM, using hardware firewalls to create isolated</li> </ul>
	regions within the device during the boot process
Multi-layer encryption support	Enables boot and application code protection and designation of other encryption keys to be used to decrypt boot modules
<ul> <li>Both processors contain:</li> <li>Lowest-cost and lowest-power C6000™ DSP</li> </ul>	Enables real-time system performance with floating-point operations for high-precision and wide dynamic range and fixed-point operations for even higher performance
• Industry's lowest-power floating-point DSP	
The OMAP-L138 DSP + ARM processor integrates a low-power ARM9 <sup>™</sup> core with the C6748 DSP for dual processing capabilities	• Offers flexibility to add intuitive human machine interfaces, touch screens or networking capabilities
	• Allows implementation of high-level system control with operating systems (Linux <sup>®</sup> and Windows Embedded CE)
<ul> <li>Power options:</li> <li>OMAP-L138 DSP + ARM processor with 480mW total power and 11mW in sleep mode</li> </ul>	Allows developers to implement portable, power efficient applications with signal processing capabilities
• C6748 DSP with 420mW total power and 11 mW in sleep mode in common use cases	
<b>Integrated peripherals</b> : Universal parallel port(uPP), Ethernet MAC (EMAC), serial ATA (SATA), multimedia card/secure digital (MMC/SD), high-speed USB 2.0/1.1, video port interface and LCD controller	• uPP allows high-speed connections to data converters, FPGAs or other processors
	• EMAC, SATA and MMC/SD enables desktop, network or portable connectivity or storage
	• LCD controller provides ability to add user interface and video port interface allows for video displays at video graphics array resolutions in product enhancement