Embedded SDK Solutions

The explosive growth of internet connected devices calls for solutions to meet the surging demand for trust and authentication, scalability, privacy and electronic data security.

Cypherbridge supplies standalone, IoT and Cloud Connected Software Development Kits and Toolkits. We target small to medium applications where memory, power and performance are carefully balanced. We offer a wide range of robust device-level solutions for secure device connectivity for both new designs and existing product upgrades.

Below are some examples of our solutions to real-world problems.

Information Security and Privacy – Embedded SSL Stack
Add electronic data privacy, authentication and integrity with our embedded SSL TLS SDK. Integrate TLS and embedded HTTPS webserver for HTML and javascript content, status and forms. Secure your proprietary TCP/IP client server applications using standards based SSL/TLS. Add X509 certificate based authentication to insure system level trust and authorization for devices and back office servers. Safely store and transfer files with uFTP Toolkit and uFile Encrypted File System.

Secure Authentication – SSH SDK
Replace TCP/IP command line interfaces like telnet. Add our embedded SSH SDK for secure password or certificate authentication login, and encrypted communications. Add SCP secure copy for file transfers.

Secure Cloud Connection – Cloud Device Kit
Connect to the cloud with our AWS IoT Device Kit for scalable data synchronization. ADK scales across the enterprise to replicate data across many devices. Add the uFile encrypted embedded file system to keep the file contents safe even if the removable media or device itself is lost or stolen.

Data Encryption – VPN IPsec/IKEv2 SDK
Encrypt your network using our embedded VPN SDK for embedded IKEv1, IKEv2, and IPsec. IPsec secures all network traffic and avoids redesign of existing mobile or fixed device applications. uVPN includes an optional firewall to filter network packets, block port scans and remote hacking.

Software and Field Updates – uLoad XL+
Plan for software lifecycle and field updates using the uLoad SDK. Files encrypted on USB flash drive are safe even if the media is lost or stolen. Installed images are authenticated and verified by uLoad Install Defender, preventing malware from being installed on a device. Multiple images are managed for field updates, including both rollback and factory versions. Managed devices save on returns and support costs.

Cypherbridge®
Trusted, safe and secure

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