TwinCAT 3 Connectivity

ℹ TF6760 | TC3 IoT HTTPS/REST

So-called REST (Representational State Transfer) APIs are frequently offered by web servers in IoT communication in order to channel certain communication processes via a uniform and stateless interface. Although REST is basically independent of the transport system, the Internet of Things mainly uses the HTTP/HTTPS protocol established in web communication as, among other things, it enables better compatibility with firewalls. There are many different application scenarios for connecting an HTTP/REST interface from within the controller, ranging from the simple determination of weather data through to complex communication processes.

The TwinCAT 3 function TF6760 TC3 IoT HTTPS/REST provides users with basic functions for HTTP/HTTPS communication in a PLC library enabling them to address REST APIs as a client and providing HTTP commands such as GET, PUT and POST. The communication channel (HTTPS) is secured by SSL/TLS mechanisms, which are also provided. Message contents can be defined, interpreted and used for communication directly from the PLC context via XML and JSON parsers.

Technical data	TF6760
Required	TC1200
Target system	Windows 7/8/10, Windows CE

Ordering information	
TF6760-0v20	TC3 IoT HTTPS/REST, platform 20 (Economy)
TF6760-0v30	TC3 IoT HTTPS/REST, platform 30 (Economy Plus)
TF6760-0v40	TC3 IoT HTTPS/REST, platform 40 (Performance)
TF6760-0v50	TC3 IoT HTTPS/REST, platform 50 (Performance Plus)
TF6760-0v60	TC3 IoT HTTPS/REST, platform 60 (Mid Performance)
TF6760-0v70	TC3 IoT HTTPS/REST, platform 70 (High Performance)
TF6760-0v80	TC3 IoT HTTPS/REST, platform 80 (Very High Performance)
TF6760-0v81	TC3 IoT HTTPS/REST, platform 81 (Many-core 5…8 Cores)
TF6760-0v82	TC3 IoT HTTPS/REST, platform 82 (Many-core 9…16 Cores)
TF6760-0v83	TC3 IoT HTTPS/REST, platform 83 (Many-core 17…32 Cores)
TF6760-0v84	TC3 IoT HTTPS/REST, platform 84 (Many-core 33…64 Cores)
TF6760-0v90	TC3 IoT HTTPS/REST, platform 90 (Other)
TF6760-0v91	TC3 IoT HTTPS/REST, platform 91 (Other 5…8 Cores)
TF6760-0v92	TC3 IoT HTTPS/REST, platform 92 (Other 9…16 Cores)
TF6760-0v93	TC3 IoT HTTPS/REST, platform 93 (Other 17…32 Cores)
TF6760-094	TC3 IoT HTTPS/REST, platform 94 (Other 33…64 Cores)

ℹ Product announcement	estimated market release 4th quarter 2019