/ Cellular connectivity

A simpler path to bringing your products to market

/\VNET silica



Managing connectivity throughout the device lifecycle

When looking for a connectivity solution for connected devices, Original Equipment Manufacturers (OEMs) must consider the challenges in each part of the device lifecycle Operational life where a Assembly and test in Change of ownership: Field deployment in a factory, potentially Once assembled. many regions via service is offered to offshore: Costappliances sold to distributors, installers, end-customers: retail: Different MNOs optimized data plan for several companies each Different data plans the assembly line test packaging their own depending on endcustomer level of scenario services with custom configuration service



/ Simplifying secure device connectivity

Avnet Silica's eUICC (Embedded Universal Integrated Circuit Card) provides the most flexible, secure, and open cellular connectivity option in the market







Flexible service

A GSMA 3.2 eUICC (Embedded Universal Integrated Circuit Card) manufactured by IDEMIA able to host several MNO profiles concurrently

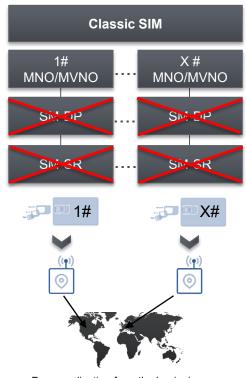
Out of the box ready

Pre-installed with a multi-IMSI profile and initial pre-paid global cellular network (2G/3G/4G/Cat-M/Cat-NB) data allowance

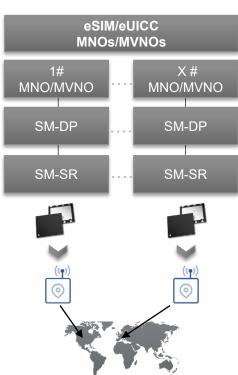
Remote management

Provision and reprogram devices from Avnet's Subscription Management Platform (SMP), enabling secure management of MNO profiles

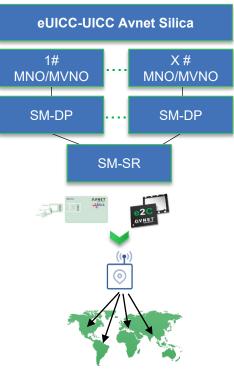
What's currently available on the market?



Personnalisation from the beginning
One MNO/MVNO profile by device = Many SKUs
Manual change
Data plan price negotiation limitated



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Late Personnalisation

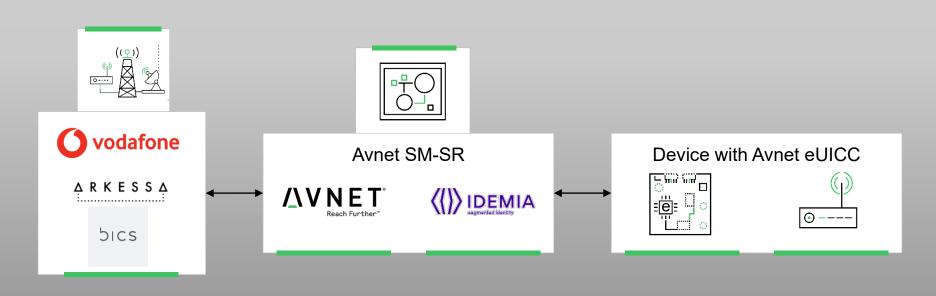
Multi MNO/MVNO profile by device = 1xSKU

OTA Remote Sim provisionning

Data plan price negotiation

/ Architecture

Avnet Silica's eUICC is managed through our SM-SR (Subscription Manager – Secure Routing) platform allowing management of connectivity to multiple global network providers (MNO/MVNO) with more being added soon



/ eUICC family range



AVeUICC3100	AVeUICC3100	AVeUICC32x0
MVNO	MNO	- MNO/MVNO
2G-3G	2G-3G-4G	- 2G-3G-4G &
GSMA 3.1 compliance	GSMA 3.1compliance	LPWAN : LTE-M & NB-IOT
Single IMSI	Single IMSI	- GSMA 3.2 Compliance
WW coverage	EMEA-APAC coverage	- Multi-IMSI
	Trials profile limitated	- Low Power Applet
	MGT Platform limited	- Global Coverage
		- Trials profile rechargeable
Δ R K E S S Δ		- Reseller Contract
ii	vodafone	- MGT platform

AVeUICC32x0



eUICC/UICC for cellular IoT connectivity

An Avnet Silica eUICC/UICC manufactured by IDEMIA

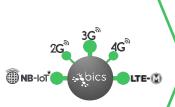
- **2FF/3FF/4FF**: Plastic format, **MFF2**: Chip format (VQFN8)
- T° grade: Consumer, Industrial and Automotive (on request)
- Pre-installed BICS Multi-IMSI (International Mobile Subscriber Identity) profile
- GSMA 3.2-compliant
- Low Power Applet

Connectivity

- Pre-installed Global Bootstrap of partner carrier
- 100KB of pre-paid Global communication for factory testing

Service

- Provisioned for life on Avnet's Subscription Management Platform (SMP)
- On-demand : Carrier change campaigns (Swap Service)





/ eUICC + connectivity: a complete solution

Easy to start

- All in one package : HW + Connectivity & management platform
- Documentation: Quick start guide, trial kit

Quality of Service

- Get access to the BICS support
- A several level of support within AvS

Collaterals

- GW manufacturers: Teltonika, Miromico...
- Suppliers Dev kit: Renesas

An industrial view of Connectivity

- Automatic flow for profile activation
- Customers = resellers
- 5G enabled

Global coverage, 5G & LPWAN access

An easy flow: manufacture, test, store & deploy



Available documentation:

- Datasheet
- Application Note

Delivering anywhere in the world

eUICC status: Ready to activate

Get a preloaded bootstrap profile

100KB of prepaid connectivity

eUICC status: Active Test

No charge during that period

Max duration is 6 months

eUICC status: Active Inventory

Billing starts after having consumed 1KB

Activate/Suspend eUICC

Deactivate

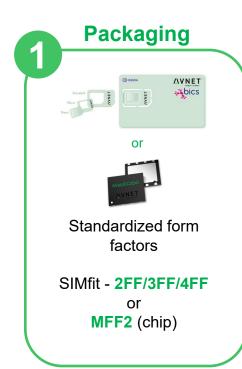
eUICC status: Active

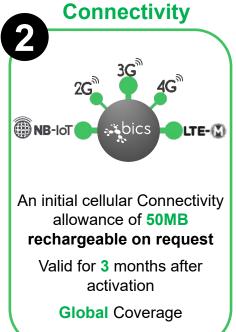
How to use Cellular Connectivity to accelerate your IOT project

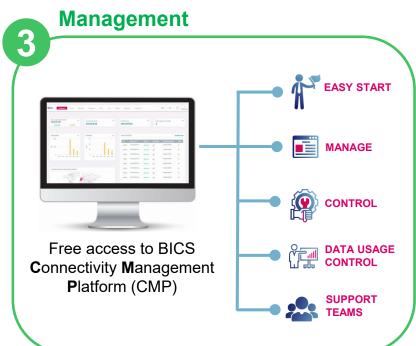
e2C - Trials eUICC



Turnkey solution to start your cellular IoT design



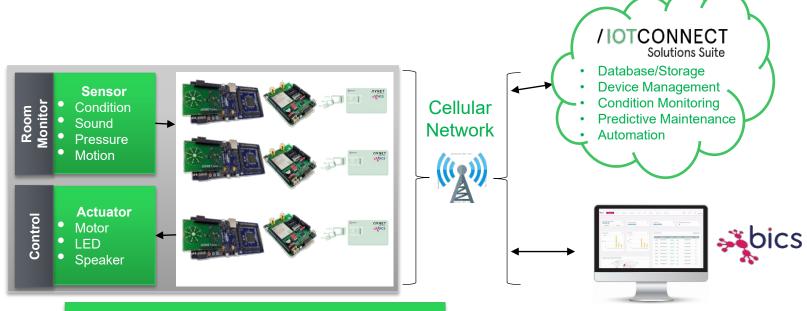




HoriZone RA Kit – Cat M1/NB1/2G



E2E POC kit



AVSHORIZONE-RENRA-BICS

- Cloud-ready Renesas RA EK-RA6M3 Board
- IoTConnect SDK
- Multisensor Arduino Shield: AVSSENSOR-REN-SHIELD-A
- CAT M1/NB1 Shield: AVSNBIOT-BG96-SHIELD-B
- BiCS eUICC: AVe2C-BICS-50M-WT-03-F234-E-TRIALS

Available – 279€

LoRaWAN Gateway















Basic version: supports Ethernet and Wifi connectivity

LTE version: supports Ethernet, Wifi, LTE & Connectivity

Gateways and routers

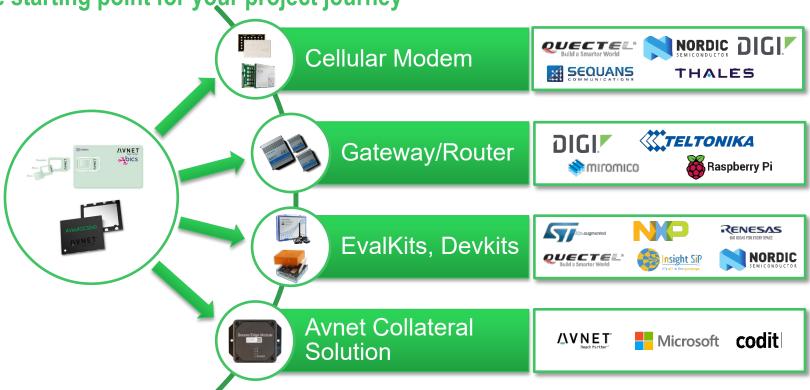






/eUICC

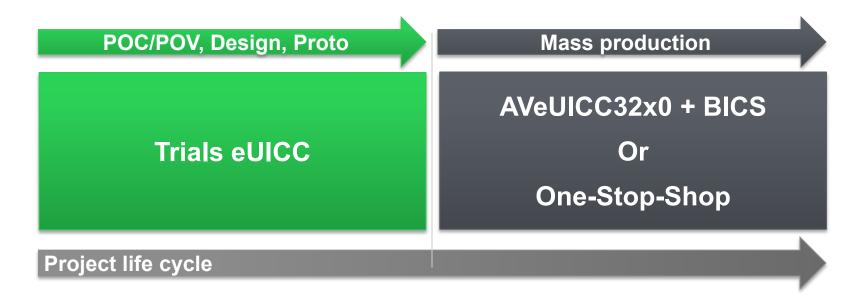
The starting point for your project journey



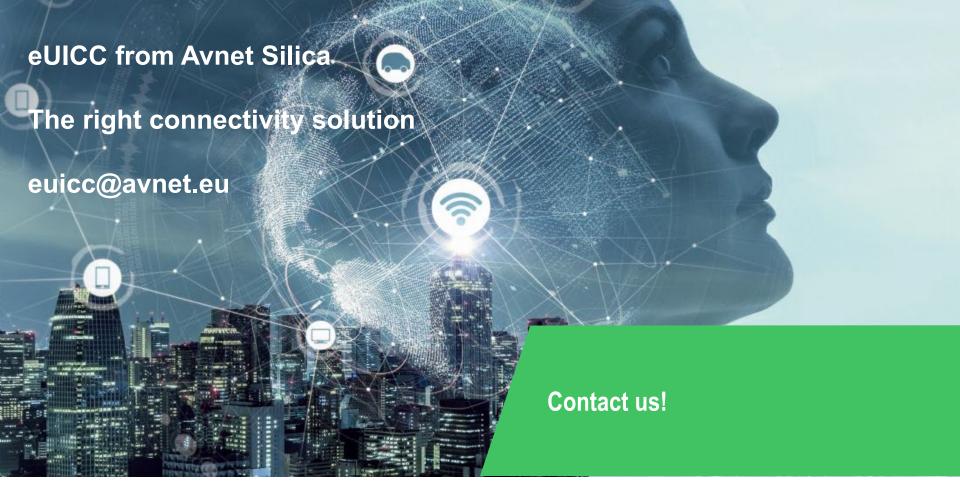
/ Project to mass production



Support throughout your project lifetime







/ Acronym - Vocabulary

SIM Subscriber Identity Module

eSIM Embedded Subscriber Identity Module

UICC Universal Integrated Circuit Card

eUICC Embedded Universal Integrated Circuit Card

MNO Mobile Network Operator

MVNO Mobile Virtual Network Operator

OTA Over The Air

RSP Remote Sim Provisioning

SKU Stock Keeping Unit

2FF Plastic SIM **Standard** Format

3FF Plastic SIM **Micro** Format **4FF** Plastic SIM **Nano** Format

MFF2 Chipset SIM – QFN8 package SIMfit all in one Plastic SIM format

SM-DP Subscription Manager Data Preparation
SM-SR Subscription Manager Secure Routing