Fast-track your smart building access and smart retail engagement deployments with Smart Facial Recognition System. Integrating Microsoft Windows 10 IoT Core, this ultra-compact system plugs seamlessly into Microsoft Azure and can run a broad array of real-time facial recognition cognitive services including face verification, face detection, and emotion recognition. With its ruggedized design and wide operating temperature range, the system delivers ultra-reliable operation in any environment – from crowded retail floors to dusty warehouse spaces.

The system can be optimized for a wide range of applications, including:

- Face verification
- Face detection including age, emotion, gender, pose, smile, and hair
- Emotion recognition including anger, contempt, disgust, fear, happiness, neutral, sadness, and surprise
- Face identification & matching

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### VIA Smart Facial Recognition System Specifications

| OS & Software       | Microsoft Windows 10 IoT Core  
|                    | Microsoft Azure Certified  
|                    | Microsoft Azure cognitive services including face verification, face detection, and emotion recognition  
| Processor & Graphics | 1.0GHz NXP i.MX 6QuadPlus Cortex-A9 SoC with Vivante GC2000+ GPU  
| System Memory       | 1GB DDR3 SDRAM onboard  
| Storage             | 4GB eMMC Flash memory  
| Connectivity        | Gigabit Ethernet  
|                     | Optional 802.11b/g/n Wi-Fi module  
|                     | Optional 3G module  
| I/O Ports           | Three USB 2.0, one HDMI, two COM, one DIO, Line-In and Line-Out Audio  
| Operating Temperature| -20°C ~ 70°C  
| Operating Humidity  | 0% ~ 90% (non-condensing)  
| Form Factor         | 150.5mm(W) x 48.1mm(H) x 103.3mm(D) (5.9" x 1.9" x 4.1")  

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